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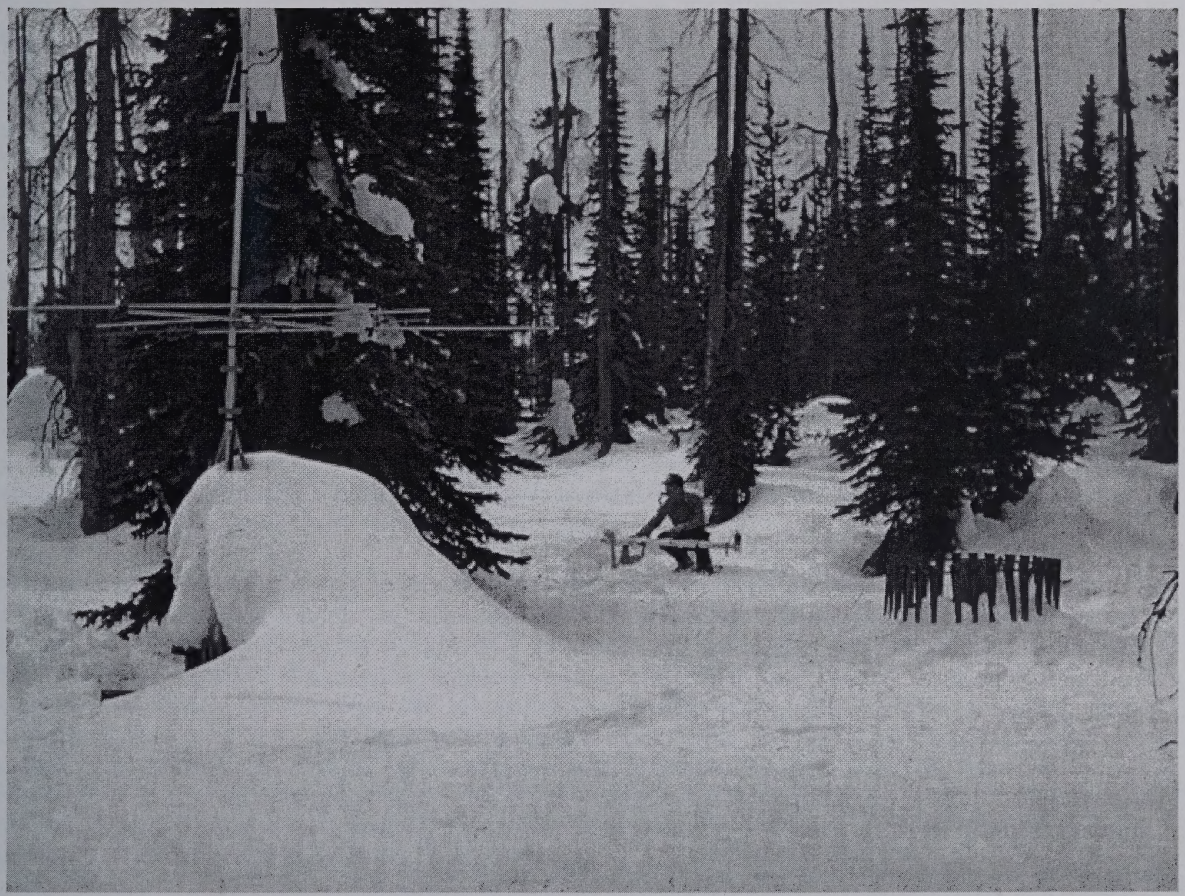
Natural Resources Conservation Service

Montana Water Supply Outlook Report May 1, 2003



Water Supply Outlook Report
and
Federal - State - Private
Cooperative Snow Surveys

For more water supply and resource management information, contact:
See Attached List

How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

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Where to Get More Information

This contact list provides you with the names and phone numbers of individuals who can provide more detailed snow survey information for each county.

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Yellowstone County
Shad Weber
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12/19/02

Montana Water Supply Outlook Report as of May 1, 2003

April precipitation varied across the state with mountain areas in the Columbia River basin at 90 percent of average, Missouri River basin 126 percent of average and the Yellowstone River basin 76 percent of average. April temperatures were generally near average in the south west and above average across other areas of Montana. Mountain snow melt that occured during April was near average and most low elevation snow melted out during April. On the other hand, higher mountain areas have received additional snow through the month.

Snowpack

Mountain snow water contents ranged from a low of 60 percent of average in the Teton River basin to a high of 118 percent of average in the West Fork Bitterroot River basin. Statewide, mountain snow water content was 92 percent of average and 91 percent of last year. Snowpack in the Columbia River basin was 89 percent of average and 79 percent of last year, in the Missouri River basin was 91 percent of average and 101 percent of last year and in the Yellowstone River basin was 87 percent of average and 111 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR
COLUMBIA	89	79
KOOTENAI	86	71
FLATHEAD	82	69
UPPER CLARK FORK	101	107
BITTERROOT	112	109
LOWER CLARK FORK	84	63
MISSOURI	91	101
MISSOURI HEADWATERS	97	120
JEFFERSON	105	137
MADISON	88	105
GALLATIN	92	102
MISSOURI MAINSTEM	80	74
HEADWATERS MAINSTEM	94	105
SMITH-JUDITH-MUSSELSHELL	94	94
SUN-TETON-MARIAS	63	48
MAINSTEM ABOVE FT. PECK RES	80	72
MILK (Bearpaw Mtns.)	0	--
ST. MARY	82	67
ST. MARY & MILK	81	66
YELLOWSTONE	87	111
UPPER YELLOWSTONE	97	108
LOWER YELLOWSTONE (WYOMING)	79	110
WIND	69	100
SHOSHONE	96	118
BIGHORN	86	114
TONGUE	84	110
POWDER	69	113

Precipitation

April mountain and valley precipitation across the state was 116 percent of average and 130 percent of last year, while the water year precipitation was 95 percent of average and 100 percent of last year. West of the Continental Divide, April mountain and valley precipitation was 95 percent of average and 97 percent of last year and the water year precipitation was 93 percent of average and 86 percent of last year. East of the Divide, April mountain and valley precipitation was 127 percent of average and 149 percent of last year and the water year precipitation was 97 percent of average and 115 percent of last year.

RIVER BASIN	APRIL % OF AVERAGE	WATER YEAR % OF AVERAGE
COLUMBIA	95	86
KOOTENAI	86	88
FLATHEAD	76	84
UPPER CLARK FORK	125	102
BITTERROOT	104	108
LOWER CLARK FORK	84	91
MISSOURI	146	97
JEFFERSON	154	101
MADISON	150	90
GALLATIN	196	112
MISSOURI MAINSTEM	147	105
SMITH-JUDITH-MUSSELSHELL	165	105
SUN-TETON-MARIAS	113	89
MILK	151	94
ST. MARY	78	85
YELLOWSTONE	79	98
UPPER YELLOWSTONE	90	99
LOWER YELLOWSTONE	69	98

Reservoirs

Major reservoir storage statewide was 95 percent of average and 106 percent of last year. Reservoir storage west of the Continental Divide was 154 percent of average and 125 percent of last year. East of the Continental Divide, reservoir storages were 79 percent of average and 97 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR
COLUMBIA	154	125
KOOTENAI	193	138
FLATHEAD	133	118
UPPER CLARK FORK	104	107
BITTERROOT	140	134
LOWER CLARK FORK	117	101
MISSOURI	79	97
JEFFERSON	54	95
MADISON	111	101
GALLATIN	142	106
MISSOURI MAINSTEM	77	94
SMITH-JUDITH-MUSSELSHELL	49	162
SUN-TETON-MARIAS	123	133
MILK	108	453
ST. MARY	78	198
YELLOWSTONE	81	96
UPPER YELLOWSTONE	100	107
LOWER YELLOWSTONE	81	96

Streamflow

SEASONAL STREAMFLOW FORECASTS

Statewide, streamflows are forecast to average 65 and 76 percent. West of the Continental Divide, streamflows are forecast to average 74 and 84 percent and east of the Continental Divide, streamflows are forecast to average 58 and 71 percent of average.

Streamflows this spring and summer will depend upon how the snow continues to melt and the amount and timing of spring rain. May and June rain will be critical to maintain streamflows during mid to late summer.

Below are River Basin streamflow forecast summaries for the period May 1 through July 31. THESE FORECASTS ASSUME NEAR NORMAL SPRING CONDITIONS AND DO NOT ACCOUNT FOR WELL BELOW AVERAGE (70% or less) OR WELL ABOVE AVERAGE (130% or more) SNOWMELT OR SPRING RAIN. Specific forecast probabilities are available in each individual River Basin Report.

RIVER BASIN	May-July THIS YEAR % OF AVERAGE	May-July LAST YEAR % OF AVERAGE
COLUMBIA	74 to 84	83 to 94
KOOTENAI	76 to 84	94 to 105
FLATHEAD	61 to 68	86 to 94
UPPER CLARK FORK	77 to 93	63 to 79
BITTERROOT	90 to 101	85 to 95
LOWER CLARK FORK	72 to 78	89 to 96
MISSOURI	55 to 69	59 to 73
JEFFERSON	52 to 67	50 to 63
MADISON	73 to 80	81 to 87
GALLATIN	71 to 79	67 to 75
MISSOURI MAINSTEM	64 to 80	57 to 70
SMITH-JUDITH-MUSSELSHELL	49 to 62	46 to 62
SUN-TETON-MARIAS	48 to 64	83 to 104
MILK	46 to 54	28 to 48
ST. MARY	76 to 83	97 to 103
YELLOWSTONE	65 to 76	60 to 71
UPPER YELLOWSTONE	75 to 86	70 to 79
LOWER YELLOWSTONE	50 to 61	49 to 63

NOTE: The MAY-JULY LAST YEAR % OF AVERAGE column above is last years forecasts on May 1, NOT of what actually occurred.

Peak Streamflow Forecasts

PEAK STREAMFLOW FORECASTS FOR UNREGULATED STREAMS ARE AS FOLLOWS:

WATERSHED	PEAK FLOW DATES
COLUMBIA RIVER BASIN	
Tobacco River near Eureka	May 9 - May 15
Fisher River near Libby	May 9 - May 15
Yaak River near Troy	May 9 - May 15
North Fork Flathead River near Columbia Falls	May 18 - May 24
Middle Fork Flathead River near West Glacier	May 18 - May 24
Hungry Horse Reservoir inflow	May 18 - May 24
Lower Willow Reservoir inflow	May 15 - May 20
Swan River near Big Fork	May 24 - May 30
Blackfoot River near Bonner	May 25 - May 31
Clark Fork above Missoula	May 29 - June 4
Clark Fork below Missoula	May 29 - June 4
Bitterroot River near Darby	May 28 - June 3
Nevada Creek near Finn	May 15 - May 20
Middle Fork Rock Creek	May 30 - June 5
Clark Fork at St. Regis	May 28 - June 3
MISSOURI RIVER BASIN	
Clark Canyon Res. inflow	May 27 - June 2
Ruby Res. inflow	May 27 - June 2
Big Hole near Melrose	June 1 - June 8
Hebgen Res. inflow	May 23 - May 29
Inflow Middle Creek Reservoir	June 1 - June 7
Gallatin River near Gateway	June 6 - June 12
Gallatin near Logan	June 6 - June 12
Missouri at Toston	June 6 - June 12
Sheep Creek near White Sulphur Springs	May 21 - May 28
Smith River at Fort Logan	June 4 - June 10
Gibson Reservoir inflow	May 20 - May 26
Swift Reservoir inflow	May 22 - May 28
Beaver Creek near Havre	Peaked March 13
YELLOWSTONE RIVER BASIN	
Yellowstone River at Lake Outlet	June 12 - June 18
Yellowstone River at Corwin Springs	June 12 - June 18
Yellowstone River at Livingston	June 12 - June 18
Boulder River near Big Timber	June 12 - June 18
Stillwater River near Absarokee	June 12 - June 18
Clarks Fork of Yellowstone near Belfry	June 12 - June 18
Yellowstone River at Billings	June 12 - June 18

Peak Streamflow Forecasts (continued)

	PEAK RANGE IN DAILY CFS	PEAK RANGE AS PERCENT OF AVERAGE	AVERAGE DAILY PEAK IN CFS
COLUMBIA RIVER			
Tobacco R. nr Eureka....	950 to 1,400	68 to 101	1,388
Fisher Creek nr Libby...	1,000 to 2,000	43 to 85	2,334
Yaak River nr Troy	3,200 to 5,600	55 to 96	5,859
Blackfoot near Bonner...	5,600 to 8,800	65 to 103	8,512
Little Blackfoot near Garrison.....	700 to 1,100	63 to 99	1,115
Clark Fork ab Missoula..	11,000 to 16,000	75 to 107	14,698
Bitterroot near Darby ..	4,800 to 6,800	88 to 125	5,454
Skalkaho Cr nr Hamilton.	420 to 600	-- to --	-----
Clark Fork blw Missoula	21,000 to 32,000	74 to 112	28,482
Clark Fork at St. Regis	27,000 to 42,000	75 to 117	35,987
North Fork Flathead nr Columbia Falls	12,000 to 21,000	61 to 106	19,788
Middle Fork Flathead nr West Glacier	11,500 to 17,000	60 to 89	19,126
Hungry Horse Res Inflow.	17,500 to 22,500	-- to --	-----
Stillwater nr Whitefish.	600 to 1,200	36 to 72	1,673
Inflow L. Willow Cr. Res. nr Phillipsburg	115 to 225	54 to 105	214
Swan at Big Fork.....	2,800 to 4,400	57 to 89	4,929
Nevada Creek near Finn..	120 to 270	40 to 90	301
Middle Fork Rock Creek near Philipsburg.....	620 to 950	76 to 116	821
Thompson River near Thompson Falls.....	1,200 to 2,000	59 to 98	2,047
Prospect Creek at Thompson Falls.....	400 to 750	33 to 62	1,219
MISSOURI RIVER			
Big Hole at Wisdom.....	800 to 1,600	51 to 102	1,566
Big Hole near Melrose ..	4,400 to 7,200	62 to 101	7,139
Inflow Clark Canyon Dam.	200 to 800	17 to 67	1,191
Inflow Ruby Reservoir ..	300 to 800	28 to 76	1,055
Inflow Hebgen Reservoir.	2,100 to 3,500	55 to 91	3,832
Inflow Middle Creek Reservoir.....	150 to 250	57 to 95	262
Gallatin near Gateway ..	3,400 to 4,800	65 to 92	5,232
Gallatin near Logan	2,900 to 5,000	53 to 91	5,468
Boulder R. near Boulder..	800 to 1,100	68 to 93	1,183
Jefferson nr Three Forks.	3,300 to 6,400	34 to 66	9,626
Missouri at Toston	11,000 to 19,000	61 to 104	18,209
St.Mary R. at US Border.	1,250 to 2,500	30 to 60	4,188
Badger Cr. nr Browning..	600 to 1,300	35 to 77	1,691
Two Medicine River near Browning.....	1,100 to 2,000	29 to 52	3,838
Cut Bank Cr. at Cut Bank	350 to 800	27 to 63	1,275
Marias near Shelby	1,200 to 3,300	17 to 47	6,980
Inflow Gibson Reservoir..	2,600 to 5,500	34 to 71	7,697
Inflow Swift Reservoir..	200 to 550	17 to 47	1,162
Sheep Creek near White Sulphur Springs	90 to 170	47 to 89	190
S. Fk. Musselshell above Martinsdale	150 to 650	13 to 57	1,133
N. Fk. Musselshell Near Delpine.....	5 to 45	10 to 92	49
Musselshell at Harlowton	150 to 550	12 to 42	1,293
Inflow Sherburne.....	700 to 1,200	42 to 71	1,694
Prickly Pear Creek near Clancy.....	160 to 240	72 to 108	221
Deerborne R. nr Craig...	500 to 1,100	26 to 65	1,697

Peak Streamflow Forecasts (continued)

	PEAK RANGE IN DAILY CFS	PEAK RANGE AS PERCENT OF AVERAGE	AVERAGE DAILY PEAK IN CFS
YELLOWSTONE RIVER			
Yellowstone Lake outlet.	3,500 to 5,500	64 to 100	5,487
Yellowstone at Corwin Springs	12,000 to 18,000	68 to 102	17,570
Yellowstone at Livingston	14,000 to 21,000	69 to 103	20,364
Shields R. nr Livingston	650 to 1,500	-- to --	-----
Boulder near Big Timber	2,800 to 4,800	55 to 95	5,051
Stillwater nr Absarokee	3,700 to 6,000	60 to 98	6,129
Mystic Lake Inflow	560 to 920	59 to 97	948
Inflow Conney Reservoir.	400 to 1,000	48 to 120	831
Clarks Fork near Belfry	4,500 to 7,500	60 to 99	7,554
Yellowstone at Billings	26,000 to 40,000	62 to 96	41,617
L. Bighorn nr Hardin	750 to 1,500	40 to 79	1,895
Powder R. at Moorehead	1,000 to 3,500	23 to 80	4,374

Provisional data values and are subject to revision.

NOTE: The low number in the flow range represents the maximum daily flow that would be expected to occur with little rainfall during the peak snowmelt period. The high number in the flow range could be expected with moderate amounts of rain about the same time as maximum snowmelt runoff is occurring.

Surface Water Supply Index

The Surface Water Supply Index (SWSI) is an indicator of surface water supply conditions for the spring and summer months. Water users that rely on mountain precipitation can use the index to evaluate seasonal surface water supplies. The SWSI accounts for mountain snowpack, mountain precipitation, streamflow, reservoir storage, and soil moisture.

SWSI RATING	SURFACE WATER CONDITION
+3.0 to +4.0	Extremely Wet
+2.0 to +3.0	Moderately Wet
+1.0 to +2.0	Slightly Wet
-1.0 to +1.0	Near Average
-1.0 to -2.0	Slightly Dry
-2.0 to -3.0	Moderately Dry
-3.0 to -4.0	Extremely Dry

SWSI	Basin
-1.2	Tobacco River
-1.4	Kootenai Ft. Steele to Libby Dam
+1.5	Kootenai River below Libby Dam
-1.7	Fisher River
-0.9	Yaak River
-1.7	North Fork Flathead River
-2.7	Middle FORK Flathead River
+1.6	South Fork Flathead River
-1.4	Flathead River at Columbia Falls
-2.9	Stillwater/Whitefish Rivers
-2.6	Swan River
-2.2	Flathead River at Polson
-2.6	Mission Valley
-2.6	Little Bitterroot River
+0.2	Clark Fork River above Milltown
-0.9	Blackfoot River
+0.4	Bitterroot River
+0.3	Clark Fork River below Bitterroot River
-1.3	Clark Fork River below Flathead River
-3.5	Beaverhead River
-2.6	Ruby River
-0.6	Big Hole River
+0.3	Boulder River (Jefferson)
-0.9	Jefferson River
-0.5	Madison River
-1.5	Gallatin River
-1.4	Missouri River above Canyon Ferry
-1.0	Missouri River below Canyon Ferry
-0.6	Smith River
-2.8	Sun River
-1.4	Teton River
-1.1	Birch/Dupuyer Creeks
-2.3	Marias River above Tiber Reservoir
+0.1	Marias River below Tiber Reservoir
-2.7	Musselshell River
+0.3	Missouri River above Ft. Peck
-2.3	Missouri River below Ft. Peck
-0.9	Milk River
+1.6	Dearborn River near Craig
-0.8	Yellowstone River above Livingston
-1.6	Shields River
-1.9	Boulder River (Yellowstone)
-1.3	Stillwater River
+1.4	Rock/Red Lodge Creeks
-1.8	Clarks Fork River
-1.2	Yellowstone River above Bighorn River
-3.6	Bighorn River below Bighorn Lake
-0.7	Little Bighorn River
-2.3	Yellowstone River below Bighorn River
-2.1	Tongue River
-2.4	Powder River

SNOTEL AND SNOW COURSE SUMMARY
MAY 2003

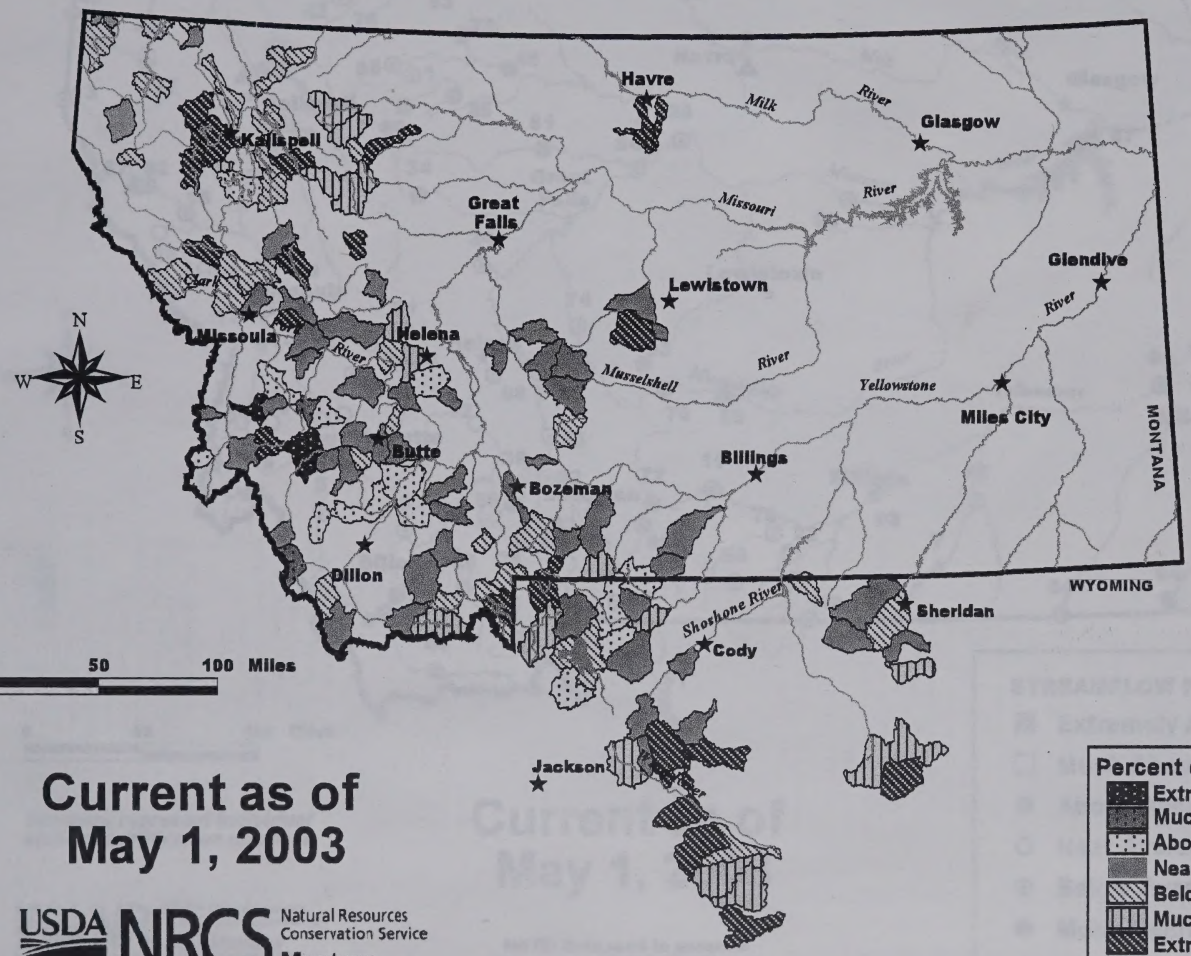
SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
ABE LINCOLN	4440	4/24/03	20	8.3	17.5	14.3
ABUNDANCE LAKE	8800	4/27/03	66	23.6	21.5	22.9
ALBRO LAKE SNOTEL	8300	5/01/03	60	21.4	16.7	23.3
AMBROSE	6480	4/29/03	34	14.1	9.2	11.1
ARCH FALLS	7350	4/30/03	28	10.7	9.6	13.1
ASHLEY DIVIDE	4820	4/29/03	0	.0	.3	1.1
ASHLEY LAKE	4000	4/29/03	0	.0	.0	1.2
BADGER PASS SNOTEL	6900	5/01/03	61	27.4	48.0	36.2
BANFIELD MTN SNOTEL	5600	5/01/03	34	13.1	18.8	17.1
BAREE CREEK	5500	4/24/03	74	32.8	47.6	40.3
BAREE MIDWAY	4600	4/24/03	56	22.8	33.2	27.4
BAREE TRAIL	3800	4/24/03	0	.0	8.0	1.3
BARKER LAKES SNOTEL	8250	5/01/03	58	17.7	13.9	16.2
BASIN CREEK SNOTEL	7180	5/01/03	---	9.3	5.0	10.0
BASSOO PEAK	5150	4/30/03	0	.0	7.5	3.2
BEAGLE SPGS SNOTEL	8850	5/01/03	---	10.4	5.8	9.3
BEAR BASIN	8150	4/29/03	48	19.0	16.8	21.2
BEAVER CREEK SNOTEL	7850	5/01/03	52	18.9	18.3	18.8
BIG SNOWY	7150	4/29/03	52	18.8	21.3	22.5
BISSON CREEK SNOTEL	4920	5/01/03	10	4.2	2.0	3.6
BLACK BEAR SNOTEL	7950	5/01/03	88	37.7	41.1	39.9
BLACK MOUNTAIN	7750	4/28/03	46	17.3	9.4	16.9
BLACK PINE SNOTEL	7100	5/01/03	30	11.2	8.6	11.0
BLACKTAIL	5650	4/29/03	14	5.0	12.6	9.7
BLOODY DICK SNOTEL	7550	5/01/03	34	14.0	7.8	10.9
BLUE LAKE	5900	5/01/03	35	14.0	24.4	22.4
BOTS SOTS	7750	4/24/03	22	8.0	4.8	7.4
BOULDER MTN SNOTEL	7950	5/01/03	69	23.5	22.2	21.6
BOX CANYON SNOTEL	6700	5/01/03	11	3.3	6.3	6.0
BOXELDER CREEK	5100	4/28/03	0	.0	2.9	2.6
BRACKETT CR SNOTEL	7320	5/01/03	58	24.1	22.9	21.5
BRANHAM LAKES	8850	4/30/03	80	33.4	24.8	32.2
BRUSH CREEK TIMBER	5000	4/29/03	0	.0	3.8	3.6
BULL MOUNTAIN	6600	4/30/03	0	.0	.0	2.6
BURNT MTN SNOTEL	5880	5/01/03	3	.6	1.3	--
CALL ROAD	8050	4/25/03	36	12.7	7.0	12.5
CALVERT CR SNOTEL	6430	5/01/03	---	5.0	1.5	2.4
CAMP SENIA	7890	4/24/03	29	9.0	5.7	7.6
CARROT BASIN SNOTEL	9000	5/01/03	84	29.2	27.4	31.0
CHESSMAN RESERVOIR	6200	5/01/03	0	.0	1.7	1.7
CHICKEN CREEK	4060	4/29/03	15	5.2	7.6	5.4
CLOVER MDW SNOTEL	8800	5/01/03	56	20.8	15.5	19.4
COLE CREEK SNOTEL	7850	5/01/03	63	20.3	13.8	19.7
COLLEY CREEK	6300	4/30/03	11	3.6	3.6	4.3
COMBINATION SNOTEL	5600	5/01/03	---	.1	.2	1.2
COPPER BOTTOM SNOTEL	5200	5/01/03	11	4.9	9.8	4.5
COPPER CAMP SNOTEL	6950	5/01/03	69	31.4	45.2	30.2
COPPER MOUNTAIN	7700	4/26/03	37	11.0	10.0	10.0
COTTONWOOD CREEK	6400	4/28/03	22	7.7	4.5	7.3
COYOTE HILL	4200	5/01/03	0	.0	2.2	2.6
CRYSTAL LAKE SNOTEL	6050	5/01/03	---	11.8	12.5	9.4

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
DAD CREEK LAKE	8400	4/27/03	48	15.1	9.6	16.8
DAISY PEAK SNOTEL	7600	5/01/03	---	12.0	11.7	11.0
DALY CREEK SNOTEL	5780	5/01/03	23	8.9	3.1	5.3
DARKHORSE LK. SNOTEL	8700	5/01/03	93	37.0	28.9	35.4
DAVIS CREEK	5400	4/24/03	45	19.5	23.6	20.2
DEADMAN CR SNOTEL	6450	5/01/03	---	5.9	6.8	5.9
DISCOVERY BASIN	7050	4/30/03	39	13.4	6.2	9.4
DIVIDE SNOTEL	7800	5/01/03	38	12.2	9.9	12.0
DIX HILL	6400	4/27/03	4	1.5	2.9	3.8
DUPUYER CREEK SNOTEL	5750	5/01/03	4	1.4	10.2	7.9
EAST FORK R.S.	5400	4/30/03	0	.0	.0	.7
ELK HORN SPRINGS	7800	4/27/03	28	9.6	6.4	7.5
ELK PEAK	8000	4/24/03	47	17.8	14.1	17.8
EMERY CREEK SNOTEL	4350	5/01/03	---	5.9	6.9	7.4
FATTY CREEK	5500	4/28/03	48	18.6	25.4	23.4
FISH CREEK	8000	5/02/03	42	13.2	8.1	11.5
FISHER CREEK SNOTEL	9100	5/01/03	102	39.1	37.1	37.8
FIVE-BULL	5700	4/26/03	0	.0	4.6	2.0
FLATTOP MTN SNOTEL	6300	5/01/03	107	43.1	56.9	46.7
FLEECER RIDGE	7500	4/29/03	28	9.1	8.2	8.7
FOOLHEN	8280	4/27/03	53	18.4	15.0	17.7
FOUR MILE	6900	4/29/03	15	4.6	2.0	6.2
FOURTH OF JULY	3450	4/24/03	0	.0	.0	1.0
FREIGHT CREEK	6000	5/01/03	15	5.4	16.6	12.0
FROHNER MDWS SNOTEL	6480	5/01/03	21	7.2	6.5	6.5
GARVER CREEK SNOTEL	4250	5/01/03	9	4.2	1.9	3.2
GOLD STONE	8100	4/27/03	50	19.7	12.6	17.7
GRASSHOPPER	7000	4/24/03	9	3.6	3.5	4.0
GRAVE CRK SNOTEL	4300	5/01/03	---	9.4	9.7	7.0
GRIFFIN CR DIVIDE	5150	4/30/03	0	.0	5.0	4.9
HAND CREEK SNOTEL	5030	5/01/03	5	1.7	3.9	6.8
HAWKINS LAKE SNOTEL	6450	5/01/03	59	23.9	31.4	28.9
HEBGEN DAM	6550	5/01/03	8	2.3	4.2	6.6
HELL ROARING DIVIDE	5770	4/28/03	57	22.3	28.8	29.0
HERRIG JUNCTION	4850	4/29/03	50	22.0	29.2	22.9
HOLBROOK	4530	4/28/03	0	.0	.3	1.2
HOODOO BASIN SNOTEL	6050	5/01/03	99	40.0	57.7	45.7
ICEBERG LAKE NO 3	5600	5/01/03	50	23.2	37.2	27.7
INDEPENDENCE	7850	4/24/03	37	14.0	16.7	16.1
INTERGAARD	6450	4/28/03	17	6.6	3.0	6.1
JOHNSON PARK	6450	4/30/03	3	.7	1.8	1.4
JOSEPHINE LOWER NO 9	4900	4/30/03	19	7.6	18.5	13.0
KRAFT CREEK SNOTEL	4750	5/01/03	---	2.4	8.9	5.2
LAKE CREEK	6100	4/25/03	0	.0	.1	2.7
LAKEVIEW CANYON	6930	4/30/03	17	5.3	7.5	9.7
LAKEVIEW RDG. SNOTEL	7400	5/01/03	25	7.6	8.4	8.7
LEMHI RIDGE SNOTEL	8100	5/01/03	40	15.1	9.7	10.9
LICK CREEK SNOTEL	6860	5/01/03	27	10.9	7.1	10.1
LITTLE PARK	7400	4/29/03	33	12.0	13.2	15.9
LOGAN CREEK	4300	4/29/03	0	.0	2.2	1.7
LONE MOUNTAIN SNOTEL	8880	5/01/03	48	20.0	18.4	20.8
LOWER TWIN SNOTEL	7900	5/01/03	63	21.0	14.2	21.3
LUBRECHT SNOTEL	4680	5/01/03	0	.0	.0	.5
LUBRECHT FOREST NO 3	5450	4/29/03	0	.0	.0	1.7

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
LUBRECHT FOREST NO 4	4650	4/29/03	0	.0	.0	.1
LUBRECHT FOREST NO 6	4040	4/29/03	0	.0	.0	.0
LUBRECHT HYDROPLOT	4200	4/29/03	0	.0	.0	.1
MADISON PLT SNOTEL	7750	5/01/03	59	20.7	23.6	24.2
MANY GLACIER SNOTEL	4900	5/01/03	1	.3	13.5	5.7
MARIAS PASS	5250	5/01/03	15	5.8	20.4	12.5
MIDDLE MILL CREEK	7850	4/30/03	46	19.2	9.2	15.1
MILL CREEK	7500	4/30/03	28	9.9	10.6	10.3
MINERAL CREEK	4000	4/29/03	19	7.8	10.0	9.6
MONUMENT PK SNOTEL	8850	5/01/03	66	23.9	24.2	23.2
MOSS PEAK SNOTEL	6780	5/01/03	85	36.0	41.5	41.8
MOULTON RESERVOIR	6850	5/02/03	15	5.5	1.6	3.5
MOUNT ALLEN NO 7	5700	4/30/03	81	35.5	44.3	41.7
MT LOCKHART SNOTEL	6400	5/01/03	42	16.9	26.2	21.2
MULE CREEK SNOTEL	8300	5/01/03	56	20.3	15.4	17.0
N.E. ENTRANCE SNOTEL	7350	5/01/03	---	4.4	.7	7.1
NEVADA RIDGE SNOTEL	7020	5/01/03	39	15.8	14.0	14.4
NEWTON MOUNTAIN	5600	4/24/03	66	29.0	35.4	33.8
NEZ PERCE CMP SNOTEL	5650	5/01/03	---	14.7	11.9	10.8
NEZ PERCE CREEK	6600	4/26/03	9	2.1	.0	2.7
NEZ PERCE PASS	6570	4/29/03	42	17.0	13.8	14.2
N.F. ELK CR SNOTEL	6250	5/01/03	27	10.3	7.4	8.0
NF JOCKO SNOTEL	6330	5/01/03	82	40.4	59.7	44.4
NOISY BASIN SNOTEL	6040	5/01/03	84	37.0	45.6	43.8
NOTCH	8500	4/25/03	54	20.2	13.8	19.4
OPHIR PARK	7150	4/27/03	38	15.3	12.9	16.0
PETERSON MDW SNOTEL	7200	5/01/03	---	15.1	8.2	11.0
PICKFOOT CRK SNOTEL	6650	5/01/03	---	5.5	6.6	6.4
PIEGAN PASS NO 6	5500	4/30/03	69	30.6	40.8	35.5
PIKE CREEK SNOTEL	5930	5/01/03	41	17.3	33.6	25.9
PIPESTONE PASS	7200	4/26/03	7	1.9	2.2	4.8
PLACER BASIN SNOTEL	8830	5/01/03	54	20.5	17.9	19.8
POORMAN CR SNOTEL	5100	5/01/03	75	29.0	46.9	30.0
PORCUPINE SNOTEL	6500	5/01/03	4	1.2	2.7	3.6
POTOMAGETON PARK	7150	5/01/03	---	6.6E	6.0	8.3
PTARMIGAN	5800	5/01/03	64	27.4	42.4	33.5
RED MOUNTAIN	6000	5/01/03	38	14.8	20.3	16.4
RED TOP	5260	4/24/03	54	23.5	28.5	27.0
REVAIS CREEK	4800	4/30/03	0	.0	.0	.5
ROCK CREEK	5600	4/29/03	0	.0	6.2	4.4
ROCK CREEK MEADOW	8160	4/29/03	58	19.6	34.2	22.7
ROCKER PEAK SNOTEL	8000	5/01/03	51	17.5	12.6	16.6
ROCKY BOY SNOTEL	4700	5/01/03	0	.0	.1	1.2
SACAJAWEA	6550	4/29/03	27	10.6	8.8	12.0
SACAJAWEA SNOTEL	6550	5/01/03	28	12.4	9.1	12.8
SADDLE MTN SNOTEL	7900	5/01/03	80	28.9	25.2	26.5
S.F. SHIELDS SNOTEL	8100	5/01/03	---	18.8	16.7	19.6
SHORT CREEK SNOTEL	7000	5/01/03	---	5.4	2.5	4.7
SHOWER FALLS SNOTEL	8100	5/01/03	66	24.5	19.8	26.9
SKALKAHO SNOTEL	7260	5/01/03	71	27.2	24.8	25.4
SLEEPING WOMAN SNTL	6150	5/01/03	31	11.5	16.8	13.4
SLIDE ROCK MOUNTAIN	7100	4/29/03	38	15.5	13.1	15.7
SMUGGLER MINE	6960	4/30/03	27	10.5	4.4	7.6
SPOTTED BEAR MTN.	7000	5/01/03	10	4.4	10.8	7.6

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
SPUR PARK SNOTEL	8100	5/01/03	64	23.2	21.4	23.2
STAHL PEAK SNOTEL	6030	5/01/03	---	36.1	47.8	37.1
STEMPLE PASS	6600	4/25/03	17	5.4	8.2	9.3
STORM LAKE	7780	4/30/03	46	15.7	11.5	14.3
STRYKER BASIN	6180	4/29/03	72	30.7	38.4	32.6
STUART MOUNTAIN SNTL	7400	5/01/03	78	30.3	36.7	32.3
SUCKER CREEK	3960	4/28/03	0	.0	.6	.2
TAYLOR ROAD	4080	4/28/03	0	.0	.0	.3
TEN MILE LOWER	6600	4/25/03	6	1.7	3.6	4.5
TEN MILE MIDDLE	6800	4/25/03	28	9.4	8.2	11.2
TEPEE CREEK SNOTEL	8000	5/01/03	43	14.1	13.6	13.6
TIMBERLINE CREEK	8850	4/24/03	50	15.8	12.9	17.3
TIZER BASIN SNOTEL	6840	5/01/03	28	9.3	8.8	9.5
TRAIL CREEK	7090	4/27/03	31	10.5	4.9	6.1
TRINKUS LAKE	6100	5/01/03	68	32.4	45.2	40.8
TRUMAN CREEK	4060	4/29/03	0	.0	.0	.1
TV MOUNTAIN	6800	4/28/03	37	14.3	17.9	17.4
TWELVEMILE SNOTEL	5600	5/01/03	20	6.8	10.3	8.8
TWENTY-ONE MILE	7150	4/28/03	27	9.7	11.5	13.4
TWIN CREEKS	3580	5/01/03	0	.0	4.5	1.7
TWIN LAKES SNOTEL	6400	5/01/03	89	41.5	43.2	38.5
UPPER HOLLAND LAKE	6200	5/01/03	72	33.8	41.4	33.5
WALDRON SNOTEL	5600	5/01/03	12	4.8	12.6	6.4
WARM SPRINGS SNOTEL	7800	5/01/03	---	28.0	20.2	23.7
WEASEL DIVIDE	5450	4/28/03	67	25.8	38.2	32.7
WEST YELL'ST SNOTEL	6700	5/01/03	---	.0	1.5	6.1
WHISKEY CREEK SNOTEL	6800	5/01/03	31	11.1	15.3	15.2
WHITE MILL SNOTEL	8700	5/01/03	79	29.1	23.8	26.4
WHITE PINE RIDGE	8850	4/25/03	17	5.6	2.0	5.6
WILLOW CREEK	6500	4/25/03	11	3.2	3.8	4.0
WOOD CREEK SNOTEL	5960	5/01/03	10	4.4	10.5	8.5
WRONG CREEK	5700	4/29/03	6	2.7	11.5	7.7
WRONG RIDGE	6800	5/01/03	---	11.5E	21.4	17.0

Mountain Snow Water Equivalent



Current as of May 1, 2003

USDA NRCS Natural Resources Conservation Service Montana

http://www.mt.nrcs.usda.gov

Percent of Average by Sub-Basin

- Extremely Above Average (Over 150)
- Much Above Average (131 - 150)
- Above Average (111 - 130)
- Near Average (91 - 110)
- Below Average (71 - 90)
- Much Below Average (51 - 70)
- Extremely Below Average (Below 51)

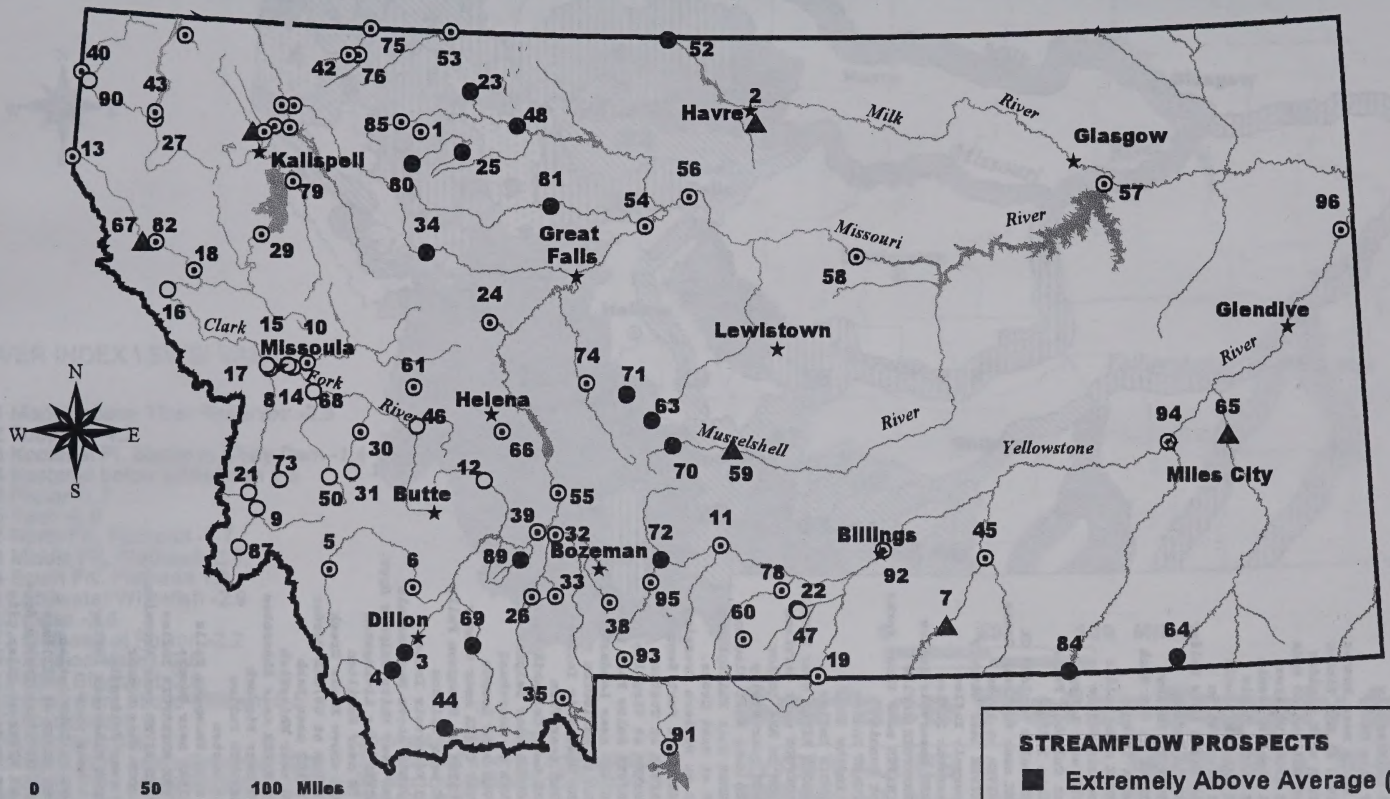
NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

Mountain Snow Water Equivalent

UNITED STATES DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

Streamflow Prospects for Montana



Numbers represent individual station identification numbers.

Current as of May 1, 2003

NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

STREAMFLOW PROSPECTS

- ■ Extremely Above Average (Over150)
- □ Much Above Average (131 - 150)
- ● Above Average (111 - 130)
- ○ Near Average (91 - 110)
- ⊙ Below Average (71 - 90)
- ● Much Below Average (51 - 70)
- ▲ Extremely Below Average (Below 51)
- △ No Data

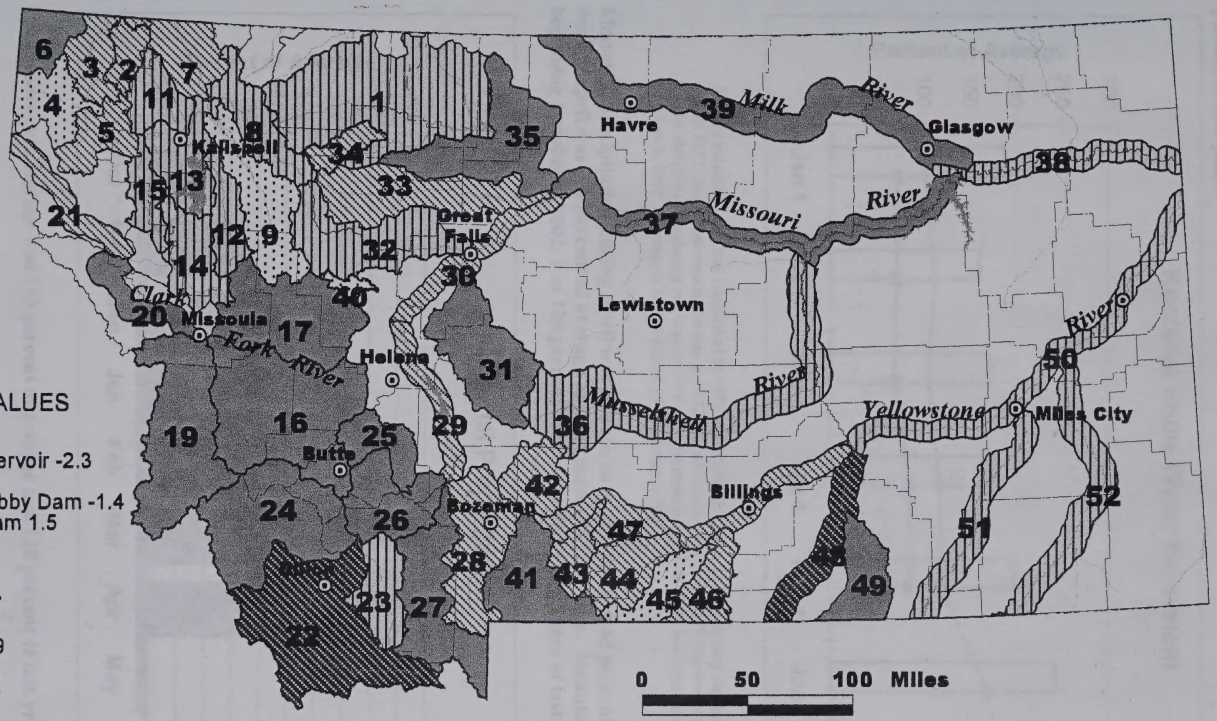
USDA NRCS Natural Resources Conservation Service Montana

http://www.mt.nrcs.usda.gov

Map #	Forecast Point
1	BADGER CREEK near Browning
2	BEAVER CREEK near Havre
3	BEAVERHEAD RIVER at Barretts
4	CLARK CANYON RES Inflow
5	BIG HOLE RIVER at Wisdom
6	BIG HOLE RIVER near Melrose
7	BIGHORN RIVER near St. Xavier
8	BITTERROOT at Missoula
9	BITTERROOT near Darby
10	BLACKFOOT RIVER near Bonner
11	BOULDER RIVER at Big Timber
12	BOULDER RIVER near Boulder
13	CLARK FK at Whitehorse Rpds
14	CLARK FORK above Milltown
15	CLARK FORK above Missoula
16	CLARK FORK at St. Regis
17	CLARK FORK below Missoula
18	CLARK FORK near Plains
19	CLARKS FORK RIVER near Belfry
21	COMO RESERVOIR Inflow
22	COONEY RESERVOIR Inflow
23	CUT BANK CREEK at Cut Bank
24	DEARBORN near Craig
25	DUPUYER CREEK near Valier
26	ENNIS Reservoir Inflow
27	FISHER RIVER near Libby
28	FLATHEAD at Columbia Falls
29	FLATHEAD Lake Inflow
30	FLINT CREEK below Boulder Ck
31	FLINT CREEK near Southern Cross
32	GALLATIN RIVER at Logan
33	GALLATIN RIVER near Gateway
34	GIBSON Reservoir Inflow
35	HEBGEN Reservoir Inflow
36	HUNGRY HORSE Reservoir Inflow
38	HYALITE RESERVOIR Inflow
39	JEFFERSON RIVER near Three Forks
40	KOOTENAI at Leonia
42	LAKE SHERBURNE Inflow
43	LIBBY RES Inflow
44	LIMA RESERVOIR Inflow
45	LITTLE BIGHORN RIVER near Hardin
46	LITTLE BLACKFOOT near Garrison
47	LOWER WILLOW CK RES Inflow
48	MARIAS RIVER near Shelby
49	MF FLATHEAD near West Glacier
50	MF ROCK CREEK near Philipsburg
52	MILK RIVER at East Cross.
53	MILK RIVER at Western Crossing
54	MISSOURI RIVER at Fort Benton
55	MISSOURI RIVER at Toston
56	MISSOURI RIVER at Virgelle
57	MISSOURI RIVER below Fort Peck
58	MISSOURI RIVER near Landusky
59	MUSSELSHELL at Harlowton
60	MYSTIC LAKE Reservoir Inflow
61	NEVADA CREEK near Finn
62	NF FLATHEAD near Columbia Falls
63	NF MUSSELSHELL near Delpine
64	POWDER RIVER at Moorehead
65	POWDER RIVER near Locate
66	PRICKLY PEAR CREEK near Clancy
67	PROSPECT CREEK at Thompson Falls
68	ROCK CREEK near Clinton
69	RUBY RIVER Reservoir Inflow
70	SF MUSSELSHELL above Martinsdale
71	SHEEP CREEK near White Sulphur Spgs.
72	SHIELDS RIVER near Livingston
73	SKALKAHO CK near Hamilton
74	SMITH RIVER above Eagle Creek
75	ST. MARY RIVER at US/CAN Border
76	ST. MARY RIVER near Babb
77	STILLWATER near Whitefish
78	STILLWATER RIVER near Absarokee
79	SWAN RIVER near Bigfork
80	SWIFT RESERVOIR Inflow
81	TETON near Dutton
82	THOMPSON near Thompson Falls
83	TOBACCO RIVER near Eureka
84	TONGUE RIVER RESERVOIR Inflow
85	TWO MEDICINE RIVER near Browning
87	WF BITTERROOT near Conner
88	WHITEFISH near Kalispell
89	WILLOW CREEK Reservoir Inflow
90	YAAK RIVER near Troy
91	YELLOWSTONE at Lake Outlet
92	YELLOWSTONE RIVER at Billings
93	YELLOWSTONE RIVER at Corwin Spgs
94	YELLOWSTONE RIVER at Miles City
95	YELLOWSTONE RIVER near Livingston
96	YELLOWSTONE RIVER near Sidney

UNITED STATES DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE



RIVER INDEX \ SWSI VALUES

1 Marias above Tiber Reservoir -2.3
2 Tobacco -1.2
3 Kootenai Ft. Steele to Libby Dam -1.4
4 Kootenai below Libby Dam 1.5
5 Fisher -1.7
6 Yaak -0.9
7 North FK. Flathead -1.7
8 Middle FK. Flathead -2.7
9 South FK. Flathead 1.6
11 Stillwater/Whitefish -2.9
12 Swan -2.6
13 Flathead at Polson -2.2
14 Mission Valley -2.6
15 Little Bitterroot -2.6
16 Clark Fork above Milltown 0.5
17 Blackfoot -0.9
19 Bitterroot 0.4
20 Clark Fork below Bitterroot 0.3
21 Clark Fork below Flathead -1.3
22 Beaverhead -3.5
23 Ruby -2.6
24 Big Hole -0.6
25 Boulder (Jefferson) 0.3
26 Jefferson -0.9
27 Madison -0.5
28 Gallatin -1.5
29 Missouri above Canyon Ferry -1.4
30 Missouri below Canyon Ferry -1
31 Smith -0.6
32 Sun -2.8
33 Teton -1.4
34 Birch/Dupuyer Creeks -1.1
35 Marias 0.1
36 Musselshell -2.7
37 Missouri above Fort Peck 0.3
38 Missouri below Fort Peck -2.3
39 Milk -0.9
40 Dearborn near Craig 1.6
41 Yellowstone above Livingston -0.8
42 Shields -1.6
43 Boulder (Yellowstone) -1.9
44 Stillwater -1.3
45 Rock/Red Lodge Creeks 1.4
46 Clarks Fork -1.8
47 Yellowstone above Bighorn -1.2
48 Bighorn below Bighorn Lake -3.6
49 Little Bighorn -0.7
50 Yellowstone below Bighorn -2.3
51 Tongue -2.1
52 Powder -2.4

Surface Water Supply Index (SWSI) Values

Current as of May 1, 2003

SWSI VALUES

- Extremely Dry -4.0 to -3.0
- Moderately Dry -2.9 to -2.0
- Slightly Dry -1.9 to -1.0
- Near Average -0.9 to 0.9
- Sightly Wet 1.0 to 1.9
- Moderately Wet 2.0 to 2.9
- Extremely Wet 3.0 to 4.0
- SWSI Not Applicable

NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

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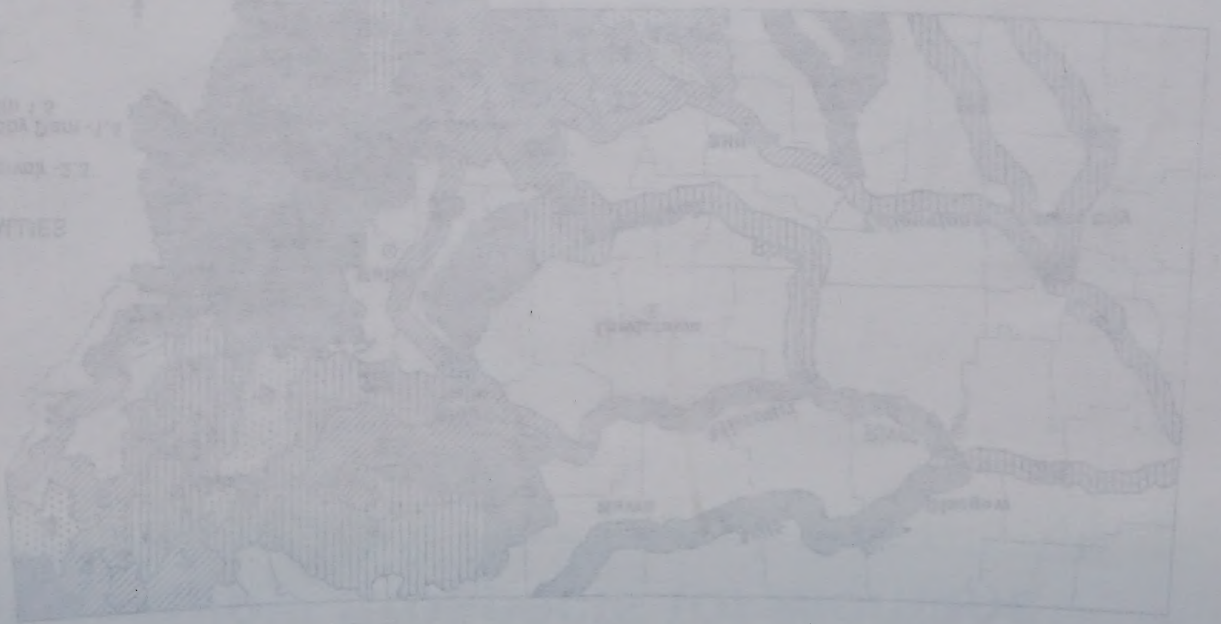
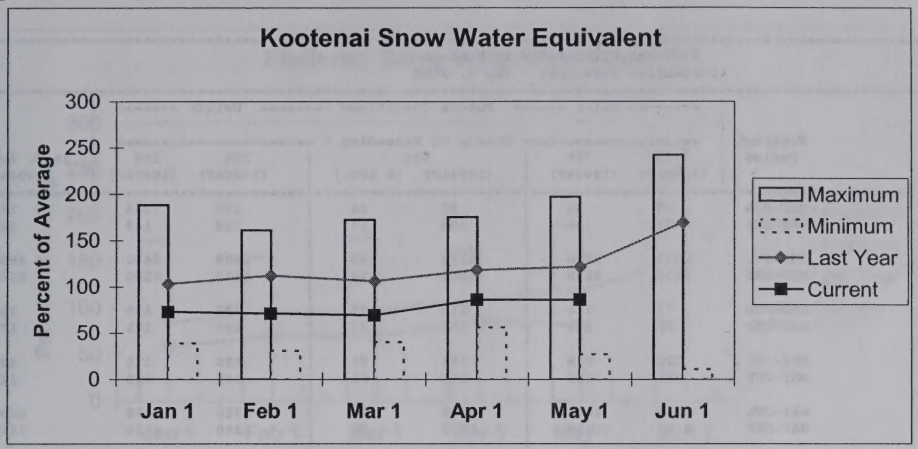


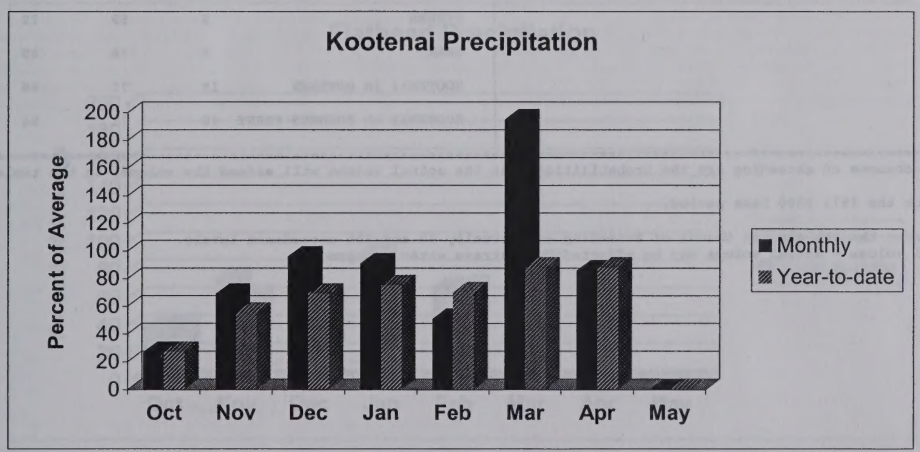
Kootenai River Basin in Montana

Snowpack in the Kootenai River Basin were below average. Snow water content was 86 percent of average and 71 percent of last year.



January maximum swe was established in 1997 and minimum was in 1977; February maximum swe was in 1997 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1974 and minimum swe was in 2001; May maximum swe was in 1974 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during April was 86 percent of average and 62 percent of last year. Valley precipitation during April was 109 percent of average and 136 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 109 percent of average and 136 percent of last year.



Lake Koocanusa storage was 193 percent of average and 138 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was +0.4 in the Tobacco River; +0.8 in the Kootenai Ft. Steele to Libby Dam; +1.1 in the Kootenai River below Libby Dam; +0.1 in the Fisher River; and +0.6 in the Yaak River.

KOOTENAI RIVER BASIN in Montana
Streamflow Forecasts - May 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
TOBACCO RIVER nr Eureka	MAY-JUL	65	83	95	86	107	125	110
	MAY-SEP	73	94	108	87	122	143	124
LIBBY RES Inflow (1,2)	MAY-JUL	3030	3860	4230	85	4600	5430	4990
	MAY-SEP	3850	4680	5050	84	5420	6250	5990
FISHER RIVER nr Libby	MAY-JUL	77	100	116	75	132	155	155
	MAY-SEP	89	113	130	77	147	171	170
YAAK RIVER nr Troy	MAY-JUL	220	265	295	91	325	370	325
	MAY-SEP	235	285	315	91	345	395	345
KOOTENAI at Leonia (1,2)	MAY-JUL	4310	4830	5070	85	5310	5830	6000
	MAY-SEP	5120	5700	5970	84	6240	6820	7090

KOOTENAI RIVER BASIN in Montana
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LAKE KOOCANUSA	5748.0	3765.0	2736.0	1948.9

KOOTENAI RIVER BASIN in Montana
Watershed Snowpack Analysis - May 1, 2003

Watershed	Number of Data Sites	This Year as % of Last Yr	This Year as % of Average
KOOTENAY in CANADA	21	71	82
KOOTENAI MAINTSTEM	4	69	92
TOBACCO	3	75	93
FISHER	5	59	72
YAAK	8	78	85
KOOTENAI in MONTANA	19	71	86
KOOTENAI ab BONNERS FERRY	40	71	84

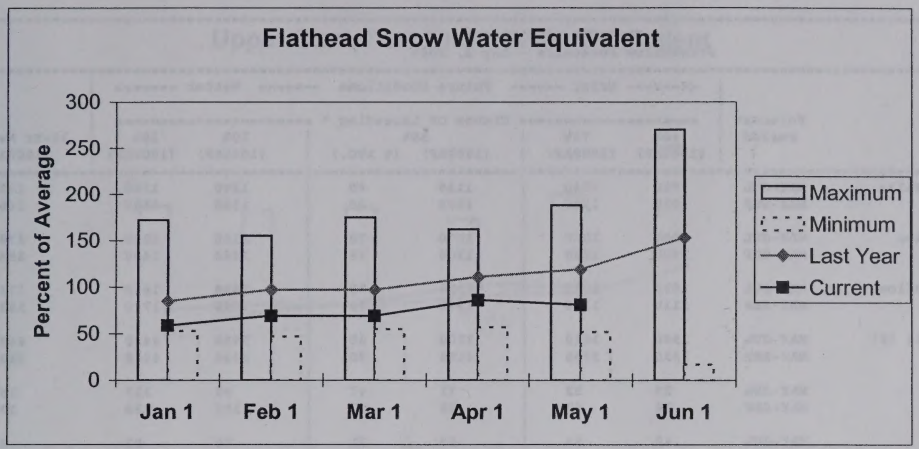
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

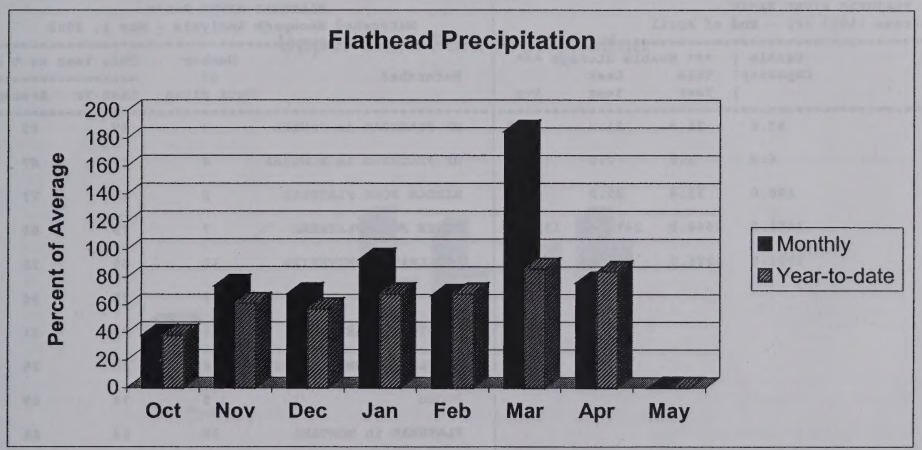
Flathead River Basin

Snowpack in the Flathead River Basin were below average. Snow water content was 80 percent of average and 67 percent of last year.



January maximum swe was established in 1997 and minimum was in 2001; February maximum swe was in 1972 and minimum was in 2001; March maximum swe was in 1972 and minimum was in 2001; April maximum swe was in 1972 and minimum was in 2001; May maximum swe was in 1972 and minimum was in 1992; and June maximum swe was in 1974 and minimum was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during April was 75 percent of average and 70 percent of last year. Valley precipitation during April was 94 percent of average and 164 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 84 percent of average and 78 percent of last year.



Combined Camas reservoir storage was 73 percent of average and 103 percent of last year; Lower Jocko Lake was 257 percent of average and 0 percent of average; combined Mission Valley reservoir storage was 71 percent of average and 112 percent of last year; Hungry Horse storage was 136 percent of average and 108 percent of last year; and Flathead Lake storage was 129 percent of average and 148 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -1.7 in the North Fork Flathead River; -2.7 in the Middle Fork Flathead River; +1.6 in the South Fork Flathead River; -1.4 in the Flathead River at Columbia Falls; -2.9 in the Stillwater/Whitefish Rivers; -2.6 in the Swan River; -2.2 in the Flathead River at Polson; -2.6 in the Mission Valley; and -2.6 in the Little Bitterroot River.

FLATHEAD RIVER BASIN
Streamflow Forecasts - May 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
NF FLATHEAD nr Columbia Falls	MAY-JUL	910	1040	1130	80	1220	1350	1420
	MAY-SEP	1030	1180	1280	80	1380	1530	1600
MF FLATHEAD nr West Glacier	MAY-JUL	900	1010	1080	78	1150	1260	1390
	MAY-SEP	1000	1120	1200	78	1280	1400	1540
HUNGRY HORSE Reservoir Inflow (1,2)	MAY-JUL	1010	1230	1330	78	1430	1650	1710
	MAY-SEP	1110	1340	1440	79	1540	1770	1830
FLATHEAD at Columbia Falls (2)	MAY-JUL	2980	3410	3700	80	3990	4420	4630
	MAY-SEP	3310	3790	4110	80	4430	4910	5110
STILLWATER nr Whitefish	MAY-JUL	25	52	71	47	90	117	150
	MAY-SEP	34	65	86	51	107	138	170
WHITEFISH nr Kalispell	MAY-JUL	42	54	62	71	70	82	88
	MAY-SEP	49	63	73	72	83	97	101
ASHLEY CREEK nr Marion (2)	MAY-JUL	0.47	0.70	0.86	19	1.68	2.90	4.46
	MAY			0.81	29			2.77
SWAN RIVER nr Bigfork	MAY-JUL	300	330	355	76	380	410	470
	MAY-SEP	350	390	420	76	450	490	550
FLATHEAD Lake Inflow (1,2)	MAY-JUL	3530	4040	4270	80	4500	5010	5330
	MAY-SEP	3790	4430	4720	81	5010	5650	5850

FLATHEAD RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CAMAS (4)	45.2	21.9	21.2	29.9
LOWER JOCKO LAKE	6.4	1.8	0.0	0.7
MISSION VALLEY (8)	100.0	33.4	29.9	47.1
HUNGRY HORSE	3451.0	2668.0	2472.0	1954.8
FLATHEAD LAKE	1791.0	1206.0	817.3	931.9

FLATHEAD RIVER BASIN
Watershed Snowpack Analysis - May 1, 2003

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
NF FLATHEAD in CANADA	3	47	65
NF FLATHEAD in MONTANA	8	71	87
MIDDLE FORK FLATHEAD	5	60	77
SOUTH FORK FLATHEAD	7	73	83
STILLWATER-WHITEFISH	10	69	75
SWAN	7	75	86
MISSION VALLEY	4	78	81
LITTLE BITTERROOT-ASHLEY	6	20	25
JOCKO	5	74	89
FLATHEAD in MONTANA	38	68	81
FLATHEAD RIVER BASIN	41	67	80

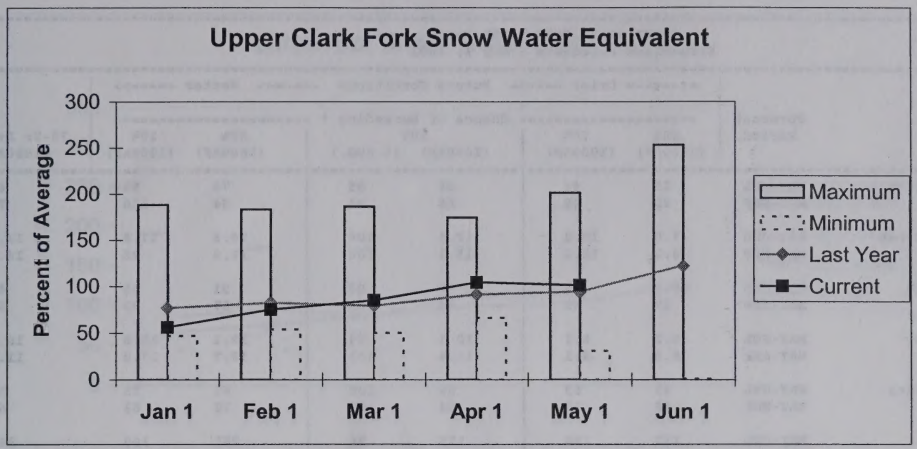
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

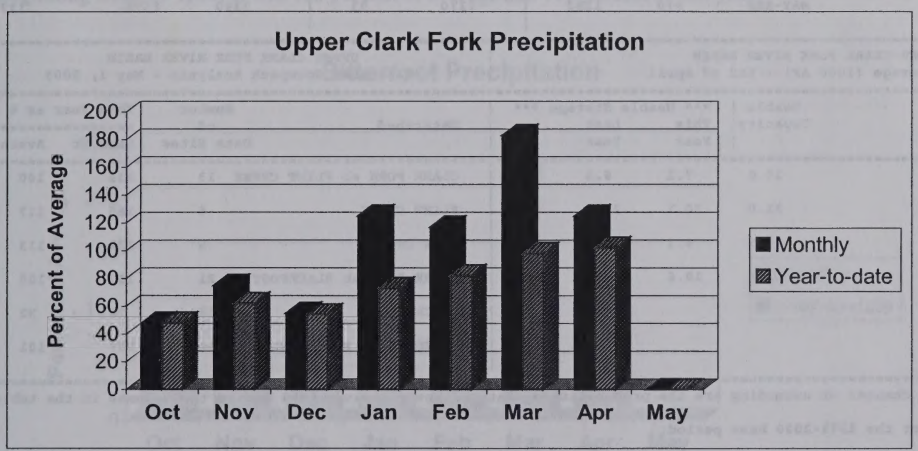
Upper Clark Fork River Basin

Snowpack in the Upper Clark Fork River Basin were near average. Snow water content was 104 percent of average and 109 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum was in 1994; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1975 and minimum swe was in 1987. Average is for the period 1971 through 2000.

Mountain precipitation during April was 118 percent of average and 136 percent of last year. Valley precipitation during April was 194 percent of average and 254 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 102 percent of average and 107 percent of last year.



East Fork Reservoir was 72 percent of average and 113 percent of last year; Georgetown Lake was 114 percent of average and 104 percent of last year; Lower Willow Creek storage was 119 percent of average and 122 percent of last year; and Nevada Creek storage was 106 percent of average and 166 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was +0.5 in the Clark Fork River above Milltown; and -0.9 in the Blackfoot River.

UPPER CLARK FORK RIVER BASIN
Streamflow Forecasts - May 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LITTLE BLACKFOOT nr Garrison	MAY-JUL	25	46	60	95	74	95	63
	MAY-SEP	22	48	66	94	84	110	70
FLINT CREEK nr Southern Cross	MAY-JUL	7.0	10.2	12.4	106	14.6	17.8	11.7
	MAY-SEP	8.2	12.3	15.1	106	17.9	22	14.2
FLINT CREEK blw Boulder Ck	MAY-JUL	19.3	33	42	88	51	65	48
	MAY-SEP	29	45	56	89	67	83	63
LOWER WILLOW CK RES Inflow	MAY-JUL	5.2	8.1	10.1	99	12.1	15.0	10.2
	MAY-SEP	5.8	9.1	11.4	103	13.7	17.0	11.1
MF ROCK CREEK nr Philipsburg	MAY-JUL	43	53	59	100	65	75	59
	MAY-SEP	49	59	66	99	73	83	67
ROCK CREEK nr Clinton	MAY-JUL	152	196	225	94	255	300	240
	MAY-SEP	181	230	260	95	290	340	275
CLARK FORK abv Milltown	MAY-JUL	290	425	520	102	615	750	510
	MAY-SEP	365	515	620	102	725	875	610
NEVADA CREEK nr Finn	MAY-JUL	3.7	7.6	10.2	73	12.8	16.7	13.9
	MAY-SEP	4.8	8.9	11.6	75	14.3	18.4	15.5
BLACKFOOT RIVER nr Bonner	MAY-JUL	390	500	570	84	640	750	675
	MAY-SEP	455	565	645	84	725	835	765
CLARK FORK abv Missoula	MAY-JUL	810	980	1090	92	1200	1370	1190
	MAY-SEP	970	1150	1270	93	1390	1570	1370

UPPER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
EAST FORK ROCK CREEK	15.6	7.1	6.3	9.8
GEORGETOWN LAKE	31.0	30.1	28.9	26.5
LOWER WILLOW CREEK	4.9	4.4	3.6	3.7
NEVADA CREEK	12.6	10.6	10.0	10.0

UPPER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - May 1, 2003

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
CLARK FORK ab FLINT CREEK	13	135	100
FLINT CREEK	6	165	117
ROCK CREEK	5	131	113
CLARK FORK ab BLACKFOOT	21	137	105
BLACKFOOT	15	78	92
UPPER CLARK FORK BASIN	34	107	101

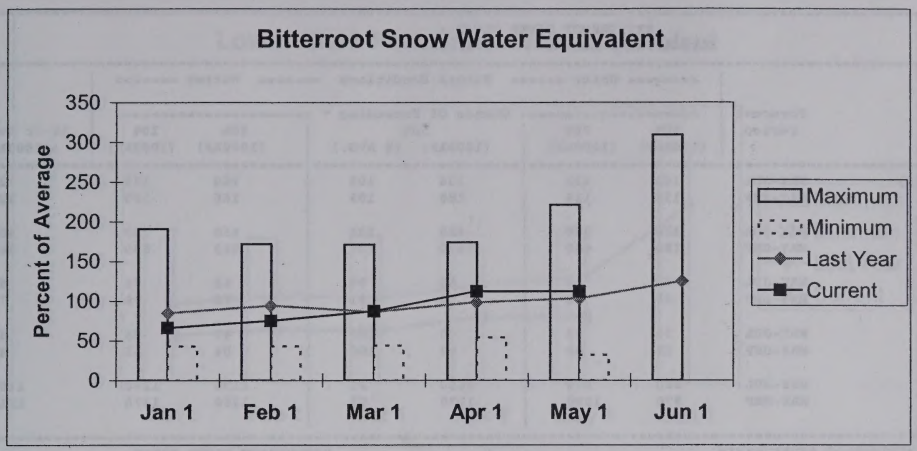
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

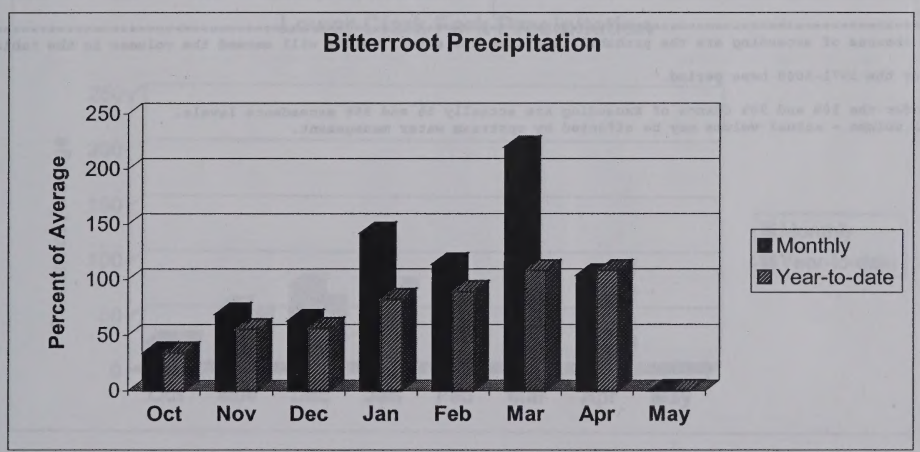
Bitterroot River Basin

Snowpack in the Bitterroot River Basin were above average. Snow water content was 112 percent of average and 109 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum was in 1977; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 2001; May maximum swe was in 1972 and minimum swe was in 1987; and June maximum swe was 1972 and 1974 and minimum swe was in 1987, 1992, 1994, and 2001. Average is for the period 1971 through 2000.

Mountain precipitation during April was 92 percent of average and 101 percent of last year. Valley precipitation during April was 169 percent of average and 228 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 108 percent of average and 109 percent of last year.



Painted Rocks Lake storage was 180 percent of average and 157 percent of last year and Como storage was 107 percent of average and 111 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was +0.4 in the Bitterroot River.

BITTERROOT RIVER BASIN
Streamflow Forecasts - May 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
WF BITTERROOT nr Conner (2)	MAY-JUL	101	122	136	109	150	171	125
	MAY-SEP	110	134	150	109	166	190	138
BITTERROOT nr Darby	MAY-JUL	320	380	420	104	460	520	405
	MAY-SEP	380	440	480	104	520	580	460
COMO RESERVOIR Inflow	MAY-JUL	48	56	62	94	68	76	66
	MAY-SEP	49	58	64	91	70	79	70
SKALKAHO CK nr Hamilton	MAY-JUL	24	33	40	100	47	56	40
	MAY-SEP	29	40	47	100	54	65	47
BITTERROOT at Missoula	MAY-JUL	860	970	1050	96	1130	1240	1100
	MAY-SEP	970	1090	1170	97	1250	1370	1210

BITTERROOT RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
PAINTED ROCKS LAKE	31.7	30.7	19.6	17.1
COMO	34.9	21.7	19.6	20.2

BITTERROOT RIVER BASIN
Watershed Snowpack Analysis - May 1, 2003

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
WEST FORK BITTERROOT	3	119	118
EAST SIDE BITTERROOT	5	127	115
WEST SIDE BITTERROOT	3	91	104
BITTERROOT RIVER BASIN	10	109	112

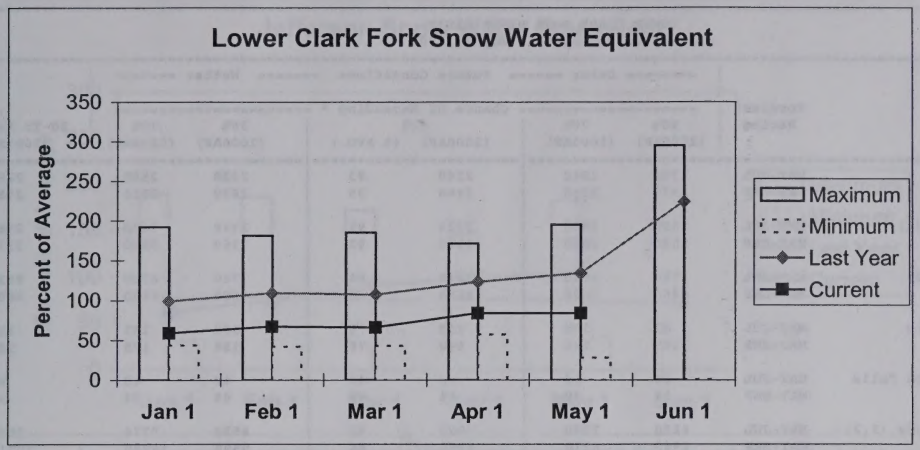
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

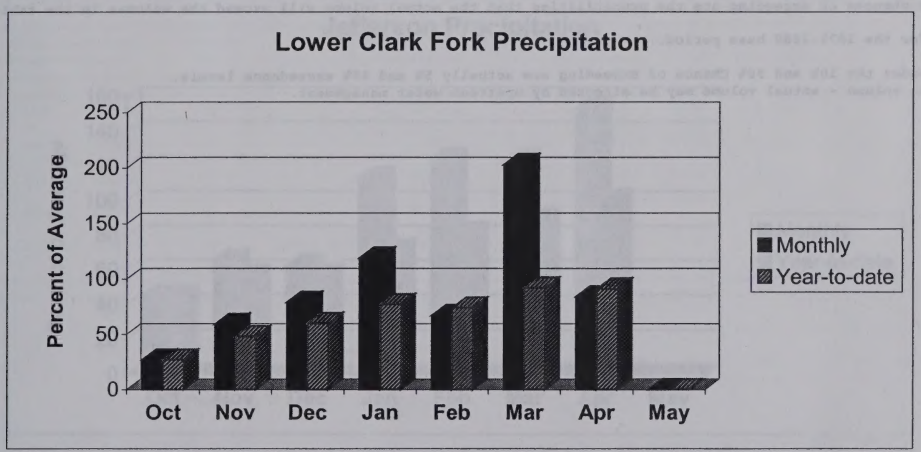
Lower Clark Fork River Basin

Snowpack in the Lower Clark Fork River Basin were below average. Snow water content was 84 percent of average and 63 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1972 and minimum swe was in 1981; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum swe was in 1974 and minimum swe was in 1977. Average is for the period 1971 through 2000.

Mountain precipitation during April was 83 percent of average and 87 percent of last year. Valley precipitation during April was 90 percent of average and 117 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 91 percent of average and 76 percent of last year.



Noxon Rapids storage was 117 percent of average and 101 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was +0.3 in the Clark Fork River below Bitterroot River and -1.3 in the Clark Fork River below Flathead River.

LOWER CLARK FORK RIVER BASIN
Streamflow Forecasts - May 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter ======>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
CLARK FORK blw Missoula	MAY-JUL	1700	1960	2140	93	2320	2580	2290
	MAY-SEP	1970	2250	2440	95	2630	2910	2580
CLARK FORK at St. Regis (1)	MAY-JUL	2020	2500	2720	91	2940	3420	2980
	MAY-SEP	2320	2860	3110	92	3360	3900	3370
CLARK FORK nr Plains (1,2)	MAY-JUL	5750	6800	7270	84	7740	8790	8620
	MAY-SEP	6460	7620	8150	85	8680	9840	9600
THOMPSON nr Thompson Falls	MAY-JUL	85	105	119	75	133	153	159
	MAY-SEP	105	126	140	76	154	175	185
PROSPECT CREEK at Thompson Falls	MAY-JUL	28	34	38	44	42	48	87
	MAY-SEP	34	40	44	46	48	54	96
CLARK FK at Whitehorse Rpds (1,2)	MAY-JUL	6150	7390	7960	83	8530	9770	9586
	MAY-SEP	6940	8330	8960	84	9590	10980	10710

LOWER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
NOXON RAPIDS	335.0	319.7	316.2	272.3

LOWER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - May 1, 2003

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
LOWER CLARK FORK BASIN	12	63	84

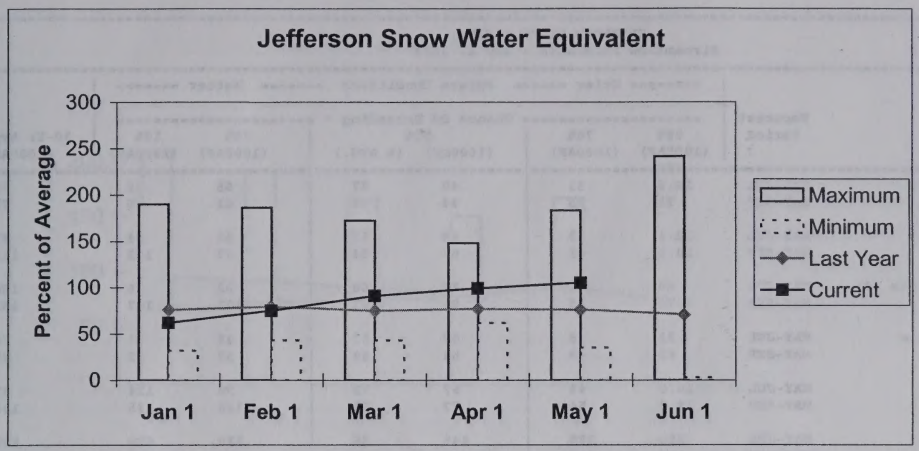
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

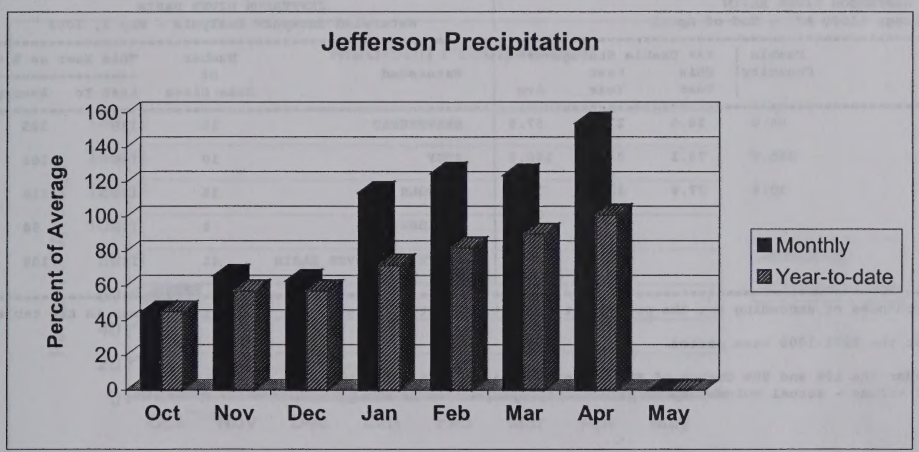
Jefferson River Basin

Snowpack in the Jefferson River Basin were near average. Snow water content was 105 percent of average and 137 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1972 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1982 and minimum in 1987. Average is for the period 1971 through 2000.

Mountain precipitation during April was 140 percent of average and 155 percent of last year. Valley precipitation during April was 236 percent of average and 339 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 101 percent of average and 122 percent of last year.



Lima storage was 50 percent of average and 120 percent of last year; Clark Canyon storage was 44 percent of average and 80 percent of last year; and Ruby River storage was 104 percent of average and 120 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.5 in the Beaverhead River; -2.6 in the Ruby River; -0.6 in the Big Hole River; +0.3 in the Boulder River; and -0.9 in the Jefferson River as a whole.

JEFFERSON RIVER BASIN
Streamflow Forecasts - May 1, 2003

Forecast Point	Forecast Period	<<======= Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LIMA RESERVOIR Inflow (2)	MAY-JUL	18.6	31	40	57	55	78	70
	MAY-SEP	21	35	44	56	61	86	78
CLARK CANYON Inflow (2)	MAY-JUL	12.1	33	48	53	63	84	90
	MAY-SEP	14.0	43	63	54	83	112	116
BEAVERHEAD RIVER at Barretts (2)	MAY-JUL	48	62	72	60	82	96	120
	MAY-SEP	71	85	94	61	103	117	153
RUBY RIVER Reservoir Inflow	MAY-JUL	33	38	42	57	46	51	74
	MAY-SEP	43	49	53	58	57	63	91
BIG HOLE RIVER at Wisdom	MAY-JUL	10.0	44	67	72	90	124	93
	MAY-SEP	19.0	54	77	77	100	135	100
BIG HOLE RIVER nr Melrose	MAY-JUL	280	380	445	86	510	610	520
	MAY-SEP	310	415	490	85	565	670	575
BOULDER RIVER nr Boulder	MAY-JUL	23	46	62	91	78	101	68
	MAY-SEP	25	51	68	91	85	111	75
WILLOW CREEK Reservoir Inflow	MAY-JUL	3.6	7.4	10.0	66	13.9	19.8	15.2
	MAY-SEP	4.0	8.6	11.7	67	16.4	23	17.5
JEFFERSON RIVER nr Three Forks (2)	MAY-JUL	152	330	450	75	570	750	600
	MAY-SEP	163	360	490	72	620	815	680

JEFFERSON RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LIMA	84.0	28.5	23.8	57.5
CLARK CANYON	255.6	70.3	88.1	160.6
RUBY RIVER	38.8	37.6	31.3	36.3

JEFFERSON RIVER BASIN
Watershed Snowpack Analysis - May 1, 2003

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
BEAVERHEAD	15	135	105
RUBY	10	150	106
BIGHOLE	16	134	110
BOULDER	8	139	98
JEFFERSON RIVER BASIN	41	137	105

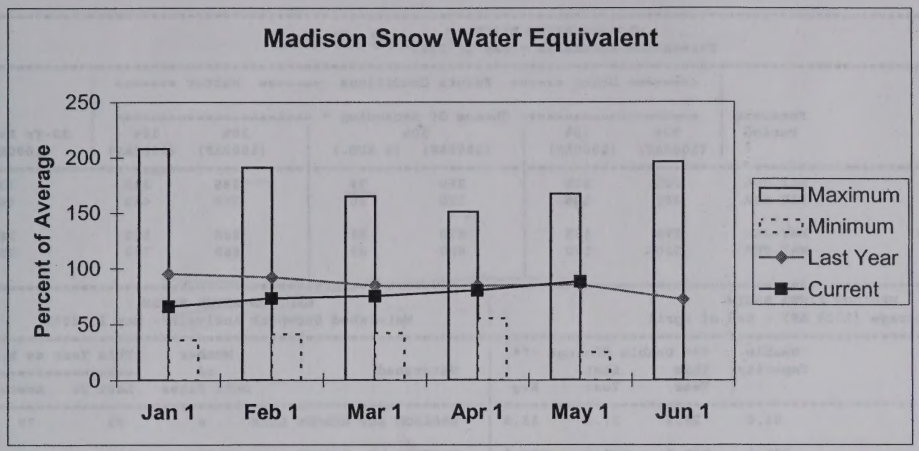
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

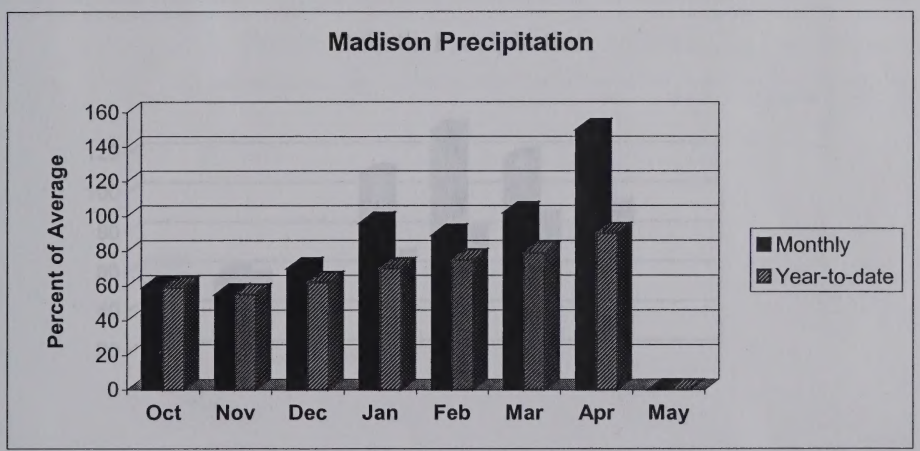
Madison River Basin

Snowpack in the Madison River Basin were below average. Snow water content was 88 percent of average and 105 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1977; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 1977; May maximum swe was in 1997 and minimum swe was in 1977; and June maximum swe was in 1995 and minimum in 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during April was 150 percent of average and 171 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 90 percent of average and 102 percent of last year.



Ennis Lake storage was 88 percent of average and 106 percent of last year and Hebgen Lake storage was 115 percent of average and 100 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -0.5 for the Madison River.

MADISON RIVER BASIN
Streamflow Forecasts - May 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
HEBGEN Reservoir Inflow	MAY-JUL	205	235	260	79	285	315	330
	MAY-SEP	285	325	350	80	375	415	440
ENNIS Reservoir Inflow (2)	MAY-JUL	390	435	470	81	505	550	580
	MAY-SEP	520	580	620	83	660	720	750

MADISON RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
ENNIS LAKE	41.0	29.6	27.8	33.8
HEBGEN LAKE	377.5	291.7	290.9	254.6

MADISON RIVER BASIN
Watershed Snowpack Analysis - May 1, 2003

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
MADISON abv HEBGEN LAKE	6	83	79
MADISON blw HEBGEN LAKE	12	120	93
MADISON RIVER BASIN	18	105	88

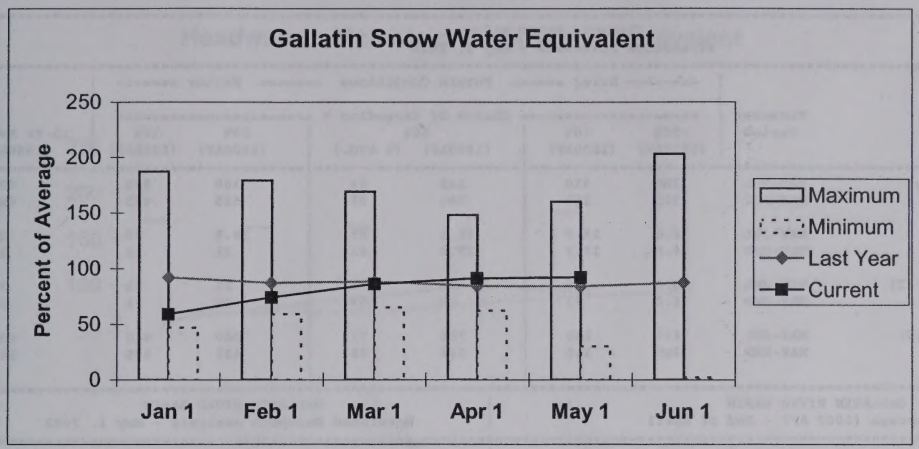
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

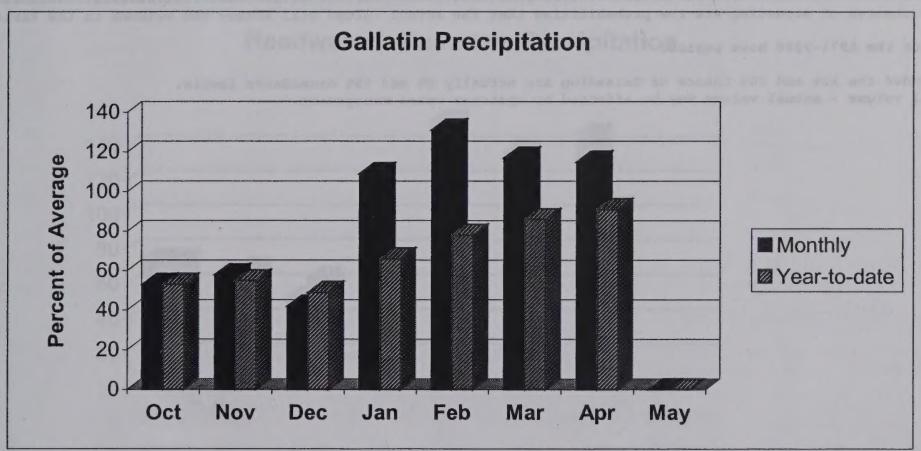
Gallatin River Basin

Snowpack in the Gallatin River Basin were near average. Snow water content was 92 percent of average and 102 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1966; February maximum swe was in 1997 and minimum was in 1977; March maximum swe was in 1997 and minimum was in 1977; April maximum swe was in 1997 and minimum was in 2001; May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1975 and minimum in 2001. Average is for the period 1971 through 2000.

Mountain precipitation during April was 105 percent of average and 151 percent of last year. Valley precipitation during April was 196 percent of average and 320 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 91 percent of average and 110 percent of last year.



Middle Creek storage was 142 percent of average and 106 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -1.5 for the Gallatin River.

GALLATIN RIVER BASIN
Streamflow Forecasts - May 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
GALLATIN RIVER nr Gateway	MAY-JUL	280	310	335	83	360	390	405
	MAY-SEP	325	365	395	82	425	465	480
HYALITE RESERVOIR Inflow	MAY-JUL	12.6	14.9	16.5	83	18.1	20	20
	MAY-SEP	14.8	17.3	19.0	83	21	23	23
HYALITE CREEK nr Bozeman (2)	MAY-JUL	15.0	20	23	74	26	31	31
	MAY-SEP	16.0	22	25	69	28	34	36
GALLATIN RIVER at Logan (2)	MAY-JUL	240	290	325	77	360	410	425
	MAY-SEP	285	345	385	76	425	485	505

GALLATIN RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
MIDDLE CREEK	10.2	7.5	7.1	5.3

GALLATIN RIVER BASIN
Watershed Snowpack Analysis - May 1, 2003

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
UPPER GALLATIN	7	92	89
HYALITE	3	126	92
BRIDGER	3	115	102
GALLATIN RIVER BASIN	13	102	92

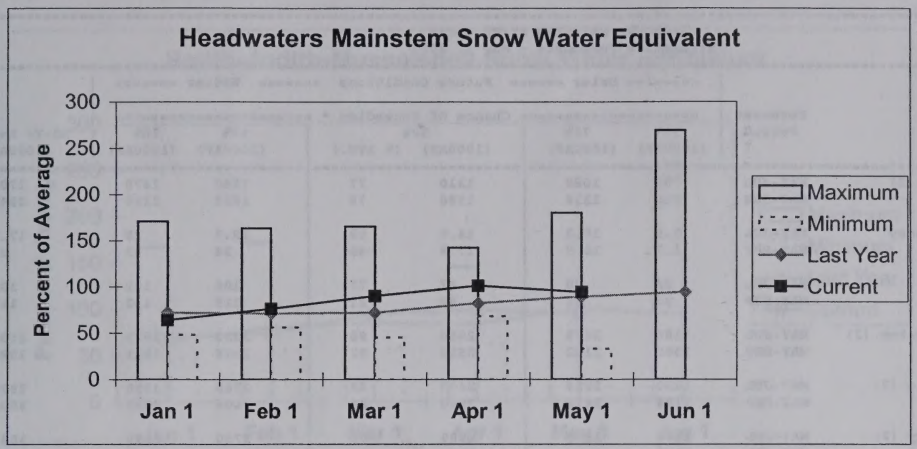
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

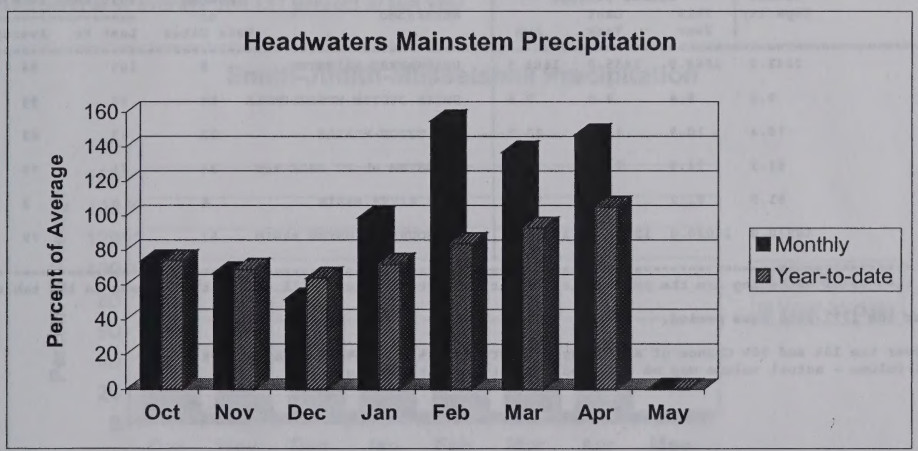
Missouri Mainstem River Basin

Snowpack in the Headwaters Missouri Mainstem River Basin were near average. Snow water content was 107 percent of average and 114 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1977; February maximum swe was in 1972 and minimum swe was in 1977; March maximum swe in 1972 and minimum swe was in 1977; April maximum swe was in 1972 and minimum swe was in 1961 and 1966; May maximum swe was in 1975 and minimum swe was in 1977; and June maximum swe was in 1975 and minimum swe was in 1992. Average is for the period 1971 through 2000.

Mountain precipitation during April was 141 percent of average and 138 percent of last year. Valley precipitation during April was 152 percent of average and 241 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 105 percent of average and 136 percent of last year.



Canyon Ferry Lake storage was 112 percent of average and 116 percent of last year; Helena Valley storage was 111 percent of average and 105 percent of last year; Lake Helena storage was 93 percent of average and 98 percent of last year; Hauser & Helena storage was 125 percent of average and 100 percent of last year; Holter Lake storage was 105 percent of average and 100 percent of last year; and Fort Peck Lake storage was 73 percent of average and 91 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -1.4 in the Missouri River above Canyon Ferry; -1.0 in the Missouri River below Canyon Ferry; +0.3 in the Missouri River above Fort Peck; and -2.3 in the Missouri River below Fort Peck.

MISSOURI MAINSTEM RIVER BASIN
Streamflow Forecasts - May 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
MISSOURI RIVER at Toston (2)	MAY-JUL	755	1080	1310	77	1540	1870	1700
	MAY-SEP	910	1310	1580	78	1850	2250	2040
PRICKLY PEAR CREEK nr Clancy	MAY-JUL	3.9	10.2	14.5	82	19.7	28	17.8
	MAY-SEP	5.7	12.9	17.8	81	24	33	22
DEARBORN nr Craig	MAY-JUL	22	58	82	77	106	142	106
	MAY-SEP	26	63	89	81	115	152	110
MISSOURI RIVER at Fort Benton (2)	MAY-JUL	1180	1670	2000	80	2330	2820	2500
	MAY-SEP	1501	2102	2510	82	2916	3521	3080
MISSOURI RIVER at Virgelle (2)	MAY-JUL	1450	2020	2400	83	2780	3350	2890
	MAY-SEP	1794	2476	2940	84	3406	4091	3500
MISSOURI RIVER nr Landusky (2)	MAY-JUL	1370	1970	2380	77	2790	3390	3080
	MAY-SEP	1722	2453	2950	79	3446	4181	3750
MISSOURI RIVER below Fort Peck (2)	MAY-JUL	1540	2140	2550	83	2960	3560	3080
	MAY-SEP	1818	2534	3020	82	3506	4221	3670
LAKE SAKAKAWEA Inflow (2)	MAY-JUL	2509	4141	5250	63	6355	7995	8370
	MAY-SEP	2797	4710	6010	61	7311	9221	9810

MISSOURI MAINSTEM RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CANYON FERRY LAKE	2043.0	1668.0	1435.0	1483.5
HELENA VALLEY	9.2	8.4	8.0	7.6
LAKE HELENA	10.4	10.9	11.1	11.7
HAUSER & HELENA	61.9	74.9	74.8	60.1
HOLTER LAKE	81.9	81.2	81.1	77.1
FORT PECK LAKE	18910.0	11030.0	12060.0	15122.0

MISSOURI MAINSTEM RIVER BASIN
Watershed Snowpack Analysis - May 1, 2003

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
HEADWATERS MAINSTEM	9	105	94
SMITH-JUDITH-MUSSELSHELL	14	94	94
SUN-TETON-MARIAS	12	47	62
MAINSTEM ab FT PECK RES	34	71	79
MILK RIVER BASIN	4	0	0
MISSOURI MAINSTEM BASIN	37	71	79

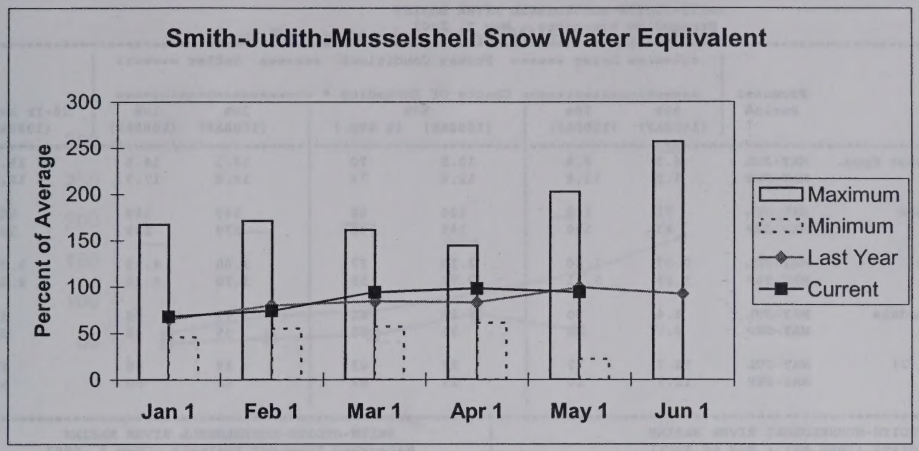
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

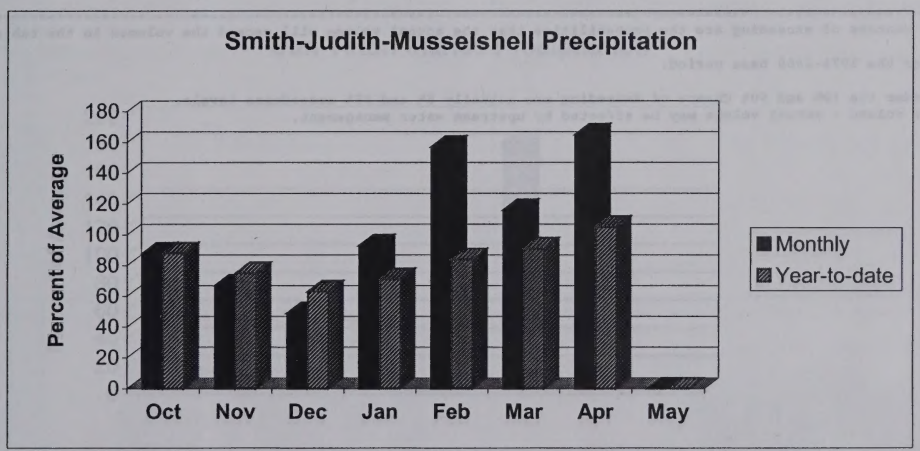
Smith-Judith-Musselshell River Basins

Snowpack in the Smith-Judith-Musselshell River Basins were near average. Snow water content in the Smith River Basin was 98 percent of average and 103 percent of last year; in the Judith River Basin was 94 percent of average and 90 percent of last year; and in the Musselshell Basin River was 93 percent of average and 104 percent of last year.



January maximum swe was established in 1997 and minimum swe in 1988; February maximum swe was in 1978 and minimum swe was in 1987; March maximum swe was in 1978 and minimum swe was in 1987; April maximum swe was in 1970 and minimum swe was in 1992; and May maximum swe was in 1970 and minimum swe was in 1987; and June maximum swe was in 1967 and minimum swe was in 1987, 1992, 1994,and 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during April in the Smith-Belts was 156 percent of average and 162 percent of last year; in the Judith was 170 percent of average and 283 percent of last year; and in the Musselshell was 163 percent of average and 205 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 105 percent of average and 127 percent of last year.



Smith River storage was 96 percent of average and 307 percent of last year; Bair storage was 69 percent of average and 141 percent of last year; Martinsdale storage was 43 percent of average and 421 percent of last year; and Deadman's Basin was 41 percent of average and 125 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -0.6 in the Smith River and -2.7 in the Musselshell River.

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Streamflow Forecasts - May 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
SHEEP CREEK nr White Sulphur Spgs.	MAY-JUL	6.5	8.9	10.5	70	12.1	14.5	15.1
	MAY-SEP	7.9	10.8	12.8	71	14.8	17.7	18.1
SMITH RIVER abv Eagle Creek	MAY-JUL	71	100	120	80	140	169	150
	MAY-SEP	83	120	145	78	170	209	185
NF MUSSELSHELL nr Delpine	MAY-JUL	0.87	1.60	2.10	57	3.00	4.20	3.70
	MAY-SEP	1.23	2.11	2.70	59	3.70	5.20	4.60
SF MUSSELSHELL abv Martinsdale	MAY-JUL	8.4	20	28	61	41	60	46
	MAY-SEP	9.7	22	31	62	45	65	50
MUSSELSHELL at Harlowton (2)	MAY-JUL	14.7	22	27	42	39	56	65
	MAY-SEP	15.7	24	29	42	42	60	69

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
SMITH RIVER	10.6	8.6	2.8	9.0
BAIR	7.0	3.8	2.7	5.5
MARTINSDALE	23.1	5.9	1.4	13.8
DEADMAN'S BASIN	72.2	24.4	19.5	58.9

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Watershed Snowpack Analysis - May 1, 2003

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
SMITH	8	103	98
JUDITH	6	90	94
MUSSELSHELL	5	104	93
SMITH-JUDITH-MUSSELSHELL	14	94	94

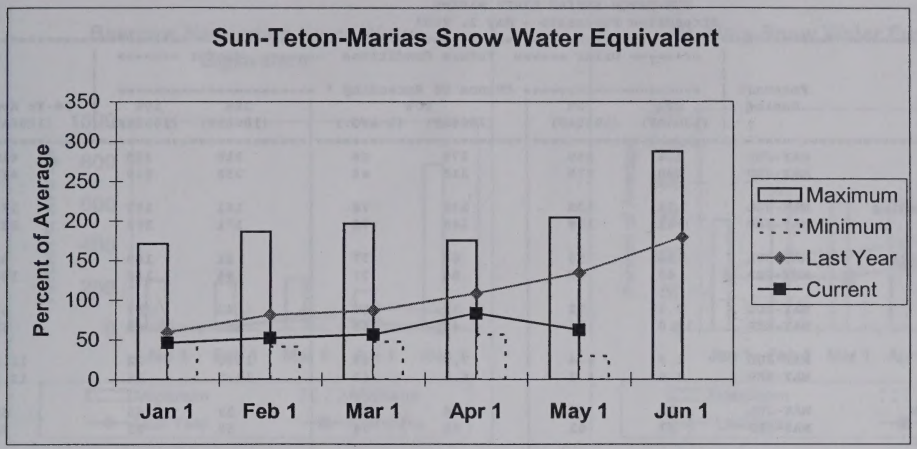
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

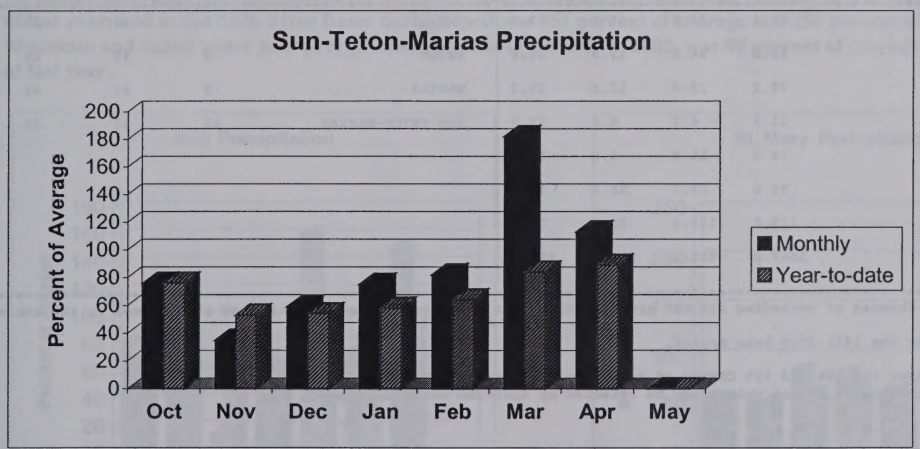
Sun-Teton-Marias River Basins

Snowpack in the Sun-Teton-Marias River Basins were well below average. Snow water content in the Sun River Basin was 63 percent of average and 48 percent of last year; in the Teton River Basin was 60 percent of average and 43 percent of last year; and in the Marias River Basin was 61 percent of average and 47 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 2001; March maximum swe was in 1972 and minimum swe was in 1984; April maximum swe was in 1972 and minimum swe was in 1984; May maximum swe was in 1972 and minimum swe was in 1977; and June maximum was in 1972 and minimum swe was in 1987, 1992, and 1998. Average is for the period 1971 through 2000.

Mountain and valley precipitation during April in the Sun was 115 percent of average and 138 percent of last year; in the Teton was 117 percent of average and 105 percent of last year; and in the Marias was 110 percent of average and 102 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 89 percent of average and 87 percent of last year.



Gibson storage was 133 percent of average and 180 percent of last year; Pishkun storage was 95 percent of average and 124 percent of last year; Willow Creek storage was 114 percent of average and 164 percent of last year; Lower Two Medicine Lake storage was 39 percent of average and 108 percent of last year; Four Horns Lake storage was 90 percent of average; Swift storage was 128 percent of average and 217 percent of last year; Lake Frances storage was 137 percent of average and 366 percent of last year; and Lake Elwell (Tiber) storage was 123 percent of average and 117 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -2.8 in the Sun River; -1.4 in the Teton River; -1.1 in the Birch/Dupuyer Creeks; and -2.3 in the Marias River above Tiber Reservoir and +0.1 in the Marias River below Tiber Reservoir.

SUN-TETON-MARIAS RIVER BASINS
Streamflow Forecasts - May 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
GIBSON Reservoir Inflow	MAY-JUL	184	240	275	66	310	365	415
	MAY-SEP	220	275	315	68	355	410	465
TWO MEDICINE RIVER nr Browning	MAY-JUL	71	109	135	78	161	199	174
	MAY-SEP	81	119	145	78	171	209	187
BADGER CREEK nr Browning (2)	MAY-JUL	36	55	68	77	81	100	88
	MAY-SEP	46	66	80	77	94	114	104
SWIFT RESERVOIR Inflow	MAY-JUL	7.1	22	32	56	42	57	57
	MAY-SEP	15.0	31	42	61	53	69	69
DUPUYER CREEK nr Valier	MAY-JUL	1.9	3.4	7.0	60	13.0	22	11.6
	MAY-SEP	2.4	4.3	8.3	62	14.7	24	13.3
CUT BANK CREEK at Cut Bank	MAY-JUL	23	36	44	64	52	65	69
	MAY-SEP	27	41	50	64	59	73	78
MARIAS RIVER nr Shelby (2)	MAY-JUL	80	145	190	55	233	298	345
	MAY-SEP	91	156	200	54	245	310	370
TETON nr Dutton	MAY-JUL	5.0	15.1	22	52	35	55	42
	MAY-SEP	9.2	18.6	25	50	38	57	50

SUN-TETON-MARIAS RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
GIBSON	99.1	82.0	45.5	61.8
PISHKUN	32.0	24.6	19.9	25.8
WILLOW CREEK	32.2	28.8	17.6	25.3
LOWER TWO MEDICINE LAKE	11.9	4.3	4.0	11.0
FOUR HORNS LAKE	19.2	11.1	0.0	12.3
SWIFT	30.0	23.7	10.9	18.5
LAKE FRANCES	112.0	103.6	28.3	75.6
LAKE ELWELL (TIBER)	1347.0	812.3	691.4	658.6

SUN-TETON-MARIAS RIVER BASINS
Watershed Snowpack Analysis - May 1, 2003

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
SUN	5	48	63
TETON	4	43	60
MARIAS	6	47	61
SUN-TETON-MARIAS	12	47	62

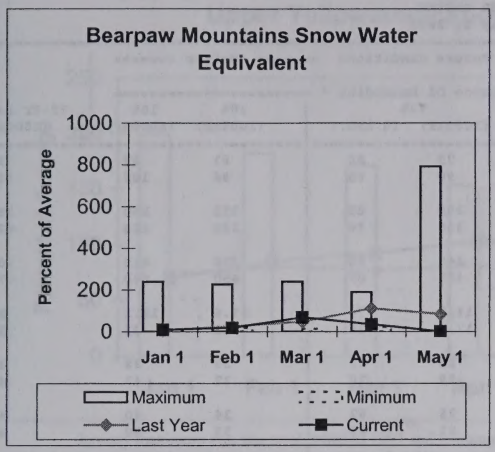
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

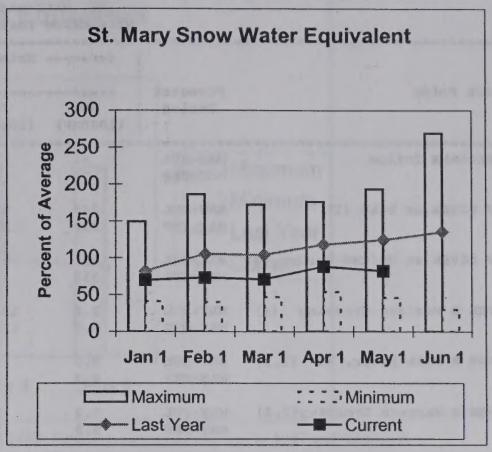
The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

St. Mary and Milk River Basins

Snowpack in the St. Mary and Milk River Basins were below average. Snow water content in the Saint Mary River Basin was 82 percent of average and 66 percent of last year. The Milk River Basin (Bearpaw Mountains) snowpack has melted out.

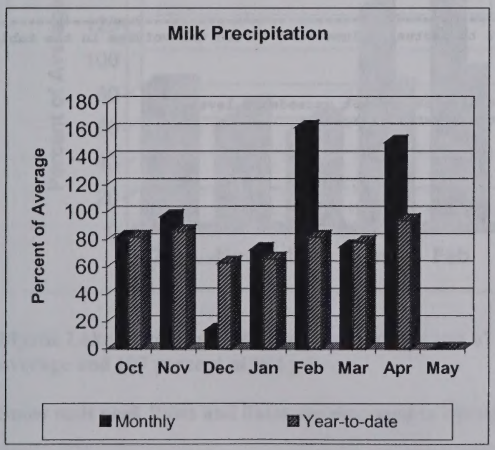


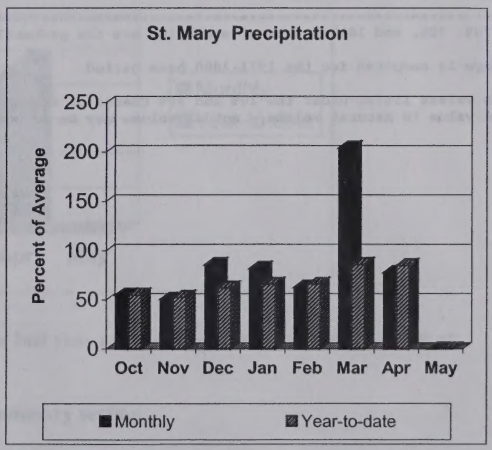


Bearpaw - January maximum swe was established in 1978 and minimum swe was in 1981; February maximum swe was 1978 and minimum was in 1973; March maximum swe was 1978 and minimum swe was 1995; April maximum swe was in 1985 and minimum swe was in 1973, 1983, and 1986; May maximum swe was 1975 and the minimum, 0.0, has occurred in several years. Average is for the period 1971 through 2000.

St. Mary - January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1972 and minimum swe was in 2001; March maximum swe was in 1972 and minimum swe was in 1977; April maximum swe was in 1967 and 1972 and minimum swe was in 2001; May maximum swe was in 19972 and minimum swe was in 1977; and June maximum swe was in 1972 and minimum swe was 1992. Average is for the period 1971 through 2000.

Mountain and valley precipitation in the St. Mary River Basin during April was 78 percent of average and 65 percent of last year; and in the Milk River Basin during April was 151 percent of average and 250 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 89 percent of average and 94 percent of last year.





Lake Sherburne storage was 78 percent of average and 198 percent of last year; Fresno storage was 96 percent of average and 442 percent of last year; Beaver Creek was 121 percent of average and 1700 percent of last year; and Nelson storage was 133 percent of average and 451 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -0.9 for the Milk River.

ST. MARY and MILK RIVER BASINS
Streamflow Forecasts - May 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LAKE SHERBURNE Inflow	MAY-JUL	61	69	75	80	81	89	94
	MAY-SEP	74	84	90	80	96	106	112
ST. MARY RIVER nr Babb (2)	MAY-JUL	240	275	295	83	315	350	355
	MAY-SEP	290	330	355	84	380	420	425
ST. MARY RIVER at US/CAN Border (2)	MAY-JUL	265	310	340	85	370	415	400
	MAY-SEP	330	380	415	87	450	500	475
MILK RIVER @ Western Crossing (3)	MAY-JUL	2.8	13.0	14.7	74	17.6	19.2	20
	MAY-SEP	3.7	13.8	17.4	76	21	23	23
MILK RIVER @ Milk River, AB (2,3)	MAY-JUL	7.5	21	25	67	33	38	38
	MAY-SEP	8.7	21	29	70	37	43	41
MILK RIVER @ Eastern Crossing(2,3)	MAY-JUL	4.2	22	26	62	34	40	42
	MAY-SEP	5.9	24	31	63	38	50	49
BEAVER CREEK near Havre	MAY-JUL	0.49	0.80	1.00	14	2.43	4.53	7.00

ST. MARY and MILK RIVER BASINS
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
LAKE SHERBURNE	64.3	16.2	8.2	20.8
FRESNO	127.0	87.0	19.7	90.9
BEAVER CREEK	3.5	3.4	0.2	2.8
NELSON	66.8	56.8	12.6	42.7

ST. MARY and MILK RIVER BASINS
Watershed Snowpack Analysis - May 1, 2003

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
ST. MARY	8	67	82
BEARPAW MOUNTAINS	4	0	0
CYPRESS HILLS, CANADA	0	0	0
MILK RIVER BASIN	4	0	0
ST. MARY & MILK BASINS	12	66	81

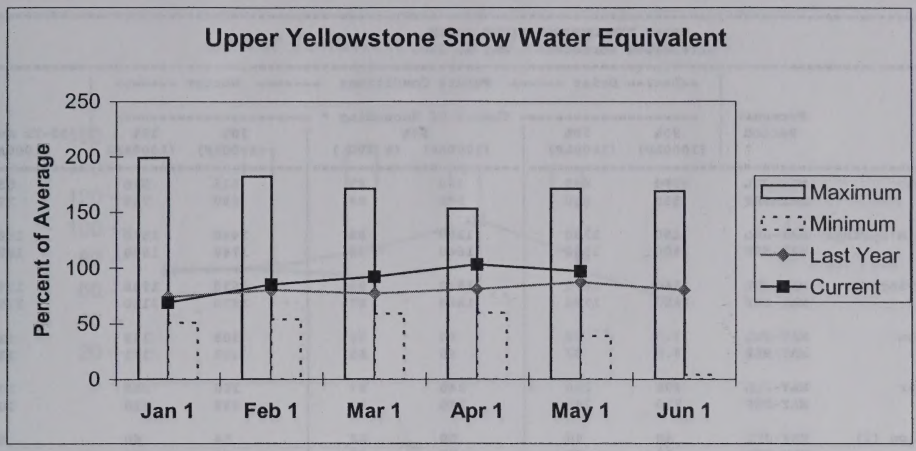
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

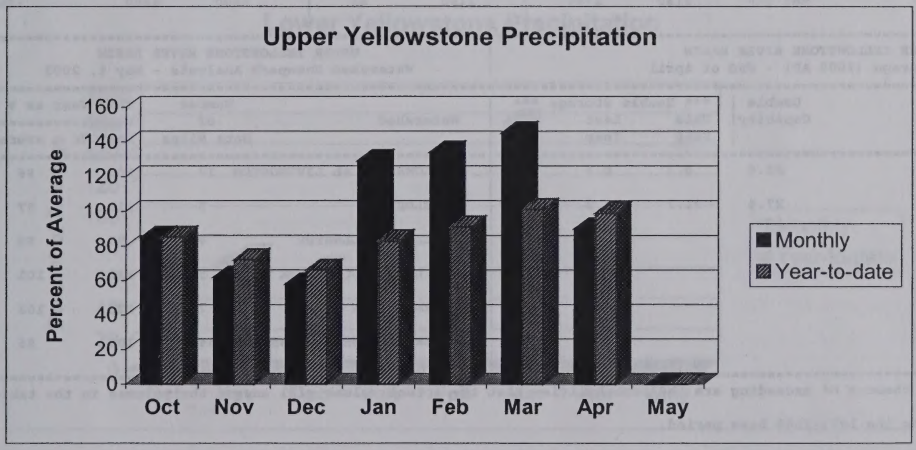
Upper Yellowstone River Basin

Snowpack in the Upper Yellowstone River Basin were near average. Snow water content was 97 percent of average and 108 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 1988; February maximum swe was in 1997 and minimum swe was in 2001; March maximum swe was in 1997 and minimum swe was in 2001; April maximum swe was in 1997 and minimum swe was in 2001; May maximum swe was in 1997 and minimum swe was in 1987; and June maximum swe was 1996 and minimum swe was in 2001. Average is for the period 1971 through 2000.

Mountain precipitation during April was 90 percent of average and 80 percent of last year. Valley precipitation during April was 89 percent of average and 96 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 99 percent of average and 112 percent of last year.



Mystic Lake storage was 20 percent of average and 67 percent of last year and Cooney storage was 104 percent of average and 107 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -0.8 in the Yellowstone River above Livingston; -1.6 in the Shields River; -1.9 in the Boulder River; -1.3 in the Stillwater River; +1.4 in the Rock/Red lodge Creeks; -1.8 in the Clarks Fork River; and -1.2 in the Yellowstone River above Bighorn River.

UPPER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - May 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
YELLOWSTONE at Lake Outlet	MAY-JUL	390	445	480	87	515	570	555
	MAY-SEP	555	610	645	84	680	735	770
YELLOWSTONE RIVER at Corwin Springs	MAY-JUL	1150	1280	1360	88	1440	1570	1550
	MAY-SEP	1400	1540	1640	88	1740	1880	1870
YELLOWSTONE RIVER near Livingston	MAY-JUL	1360	1470	1550	88	1630	1740	1770
	MAY-SEP	1650	1790	1880	87	1970	2110	2150
SHIELDS RIVER nr Livingston	MAY-JUL	11.0	52	80	66	108	149	121
	MAY-SEP	9.0	57	90	65	123	171	138
BOULDER RIVER at Big Timber	MAY-JUL	190	220	240	87	260	290	275
	MAY-SEP	210	245	265	88	285	320	300
MYSTIC LAKE Reservoir Inflow (2)	MAY-JUL	40	46	50	88	54	60	57
	MAY-SEP	54	60	65	88	70	76	74
STILLWATER RIVER nr Absarokee (2)	MAY-JUL	285	340	375	80	410	465	470
	MAY-SEP	355	410	450	80	490	545	560
CLARKS FORK RIVER nr Belfry	MAY-JUL	335	385	415	81	445	495	515
	MAY-SEP	365	415	450	79	485	535	570
COONEY RESERVOIR Inflow (2)	MAY-JUL	18.0	31	40	105	49	62	38
	MAY-SEP	30	43	52	106	61	74	49
YELLOWSTONE RIVER at Billings (2)	MAY-JUL	1900	2410	2750	85	3090	3600	3250
	MAY-SEP	2180	2780	3190	83	3600	4200	3850

UPPER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
MYSTIC LAKE	21.0	0.2	0.3	1.0
COONEY	27.4	21.7	20.2	20.9

UPPER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - May 1, 2003

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
YELLOWSTONE ab LIVINGSTON	17	102	96
SHIELDS	5	111	97
BOULDER-STILLWATER	4	95	95
RED LODGE-ROCK CREEK	5	132	101
CLARK'S FORK	7	123	102
UPPER YELLOWSTONE BASIN	34	108	96

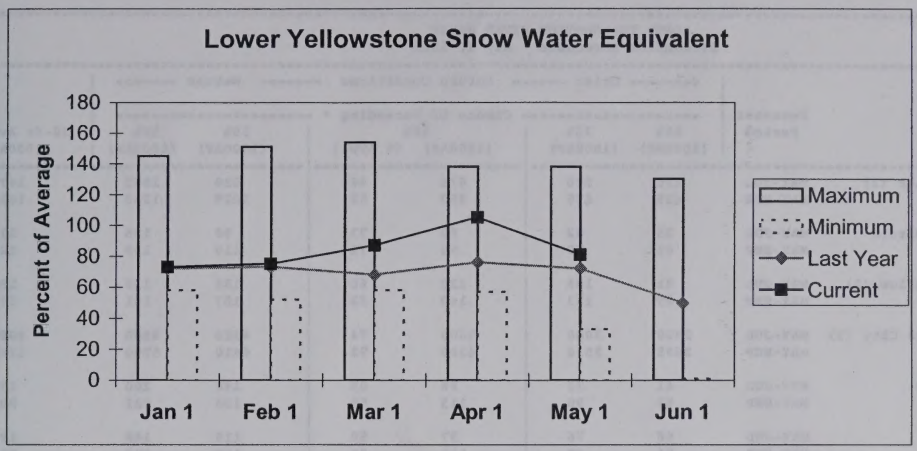
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

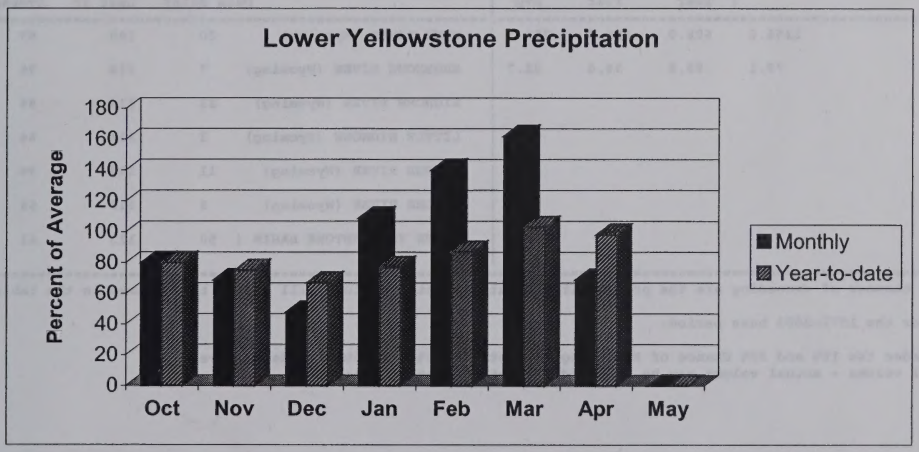
Lower Yellowstone River Basin

Snowpack in the Lower Yellowstone River Basin, in Wyoming, were below average. Snow water content was 79 percent of average and 109 percent of last year.



January maximum swe was established in 1997 and minimum swe was in 2000; February maximum swe was in 1997 and minimum swe was in 2001; March maximum swe was in 1986 and minimum swe was in 2001; April maximum swe was in 1986 and minimum swe was in 2001; May maximum swe was in 1997 and minimum swe was in 1981; and June maximum swe was in 1995 and minimum swe was in 2001. Average is for the period 1971 through 2000.

Mountain and valley precipitation during April was 69 percent of average and 79 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2002, was 98 percent of average and 121 percent of last year.



Bighorn Lake storage was 77 percent of average and 93 percent of last year and Tongue River storage was 176 percent of average and 162 percent of last year.

Snow melt peak flows and dates are discussed in the statewide summary section.

Surface Water Supply Index (SWSI) was -3.6 in the Bighorn River below Bighorn Lake; -0.7 in the Little Bighorn River; -2.3 in the Yellowstone River below Bighorn River; -2.1 in the Tongue River; and -2.4 in the Powder River.

LOWER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - May 1, 2003

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
BIGHORN RIVER nr St. Xavier (2)	MAY-JUL	290	520	675	46	830	1065	1470
	MAY-SEP	425	675	850	52	1025	1280	1630
LITTLE BIGHORN RIVER nr Hardin	MAY-JUL	35	62	80	73	98	125	110
	MAY-SEP	41	70	90	71	110	139	126
TONGUE RIVER RESERVOIR Inflow (2)	MAY-JUL	81	104	120	60	136	159	199
	MAY-SEP	99	123	140	62	157	181	225
YELLOWSTONE RIVER at Miles City (2)	MAY-JUL	2320	3080	3600	74	4120	4880	4890
	MAY-SEP	2695	3590	4200	73	4810	5700	5740
POWDER RIVER at Moorehead	MAY-JUL	41	75	98	55	140	200	178
	MAY-SEP	53	90	115	58	158	221	200
POWDER RIVER near Locate	MAY-JUL	46	76	97	50	118	148	195
	MAY-SEP	54	89	112	51	135	170	220
YELLOWSTONE RIVER nr Sidney (2)	MAY-JUL	2205	2980	3500	71	4020	4800	4950
	MAY-SEP	2510	3410	4020	70	4630	5530	5760

LOWER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of April

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
BIGHORN LAKE	1356.0	608.0	656.8	791.9
TONGUE RIVER	79.1	55.8	34.4	31.7

LOWER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - May 1, 2003

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
WIND RIVER (Wyoming)	20	100	69
SHOSHONE RIVER (Wyoming)	7	118	96
BIGHORN RIVER (Wyoming)	21	114	86
LITTLE BIGHORN (Wyoming)	3	111	84
TONGUE RIVER (Wyoming)	11	123	94
POWDER RIVER (Wyoming)	9	113	69
LOWER YELLOWSTONE BASIN (	50	113	81

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

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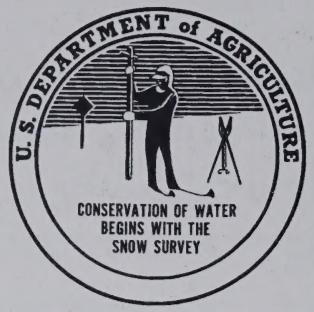

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Montana Water Supply Outlook Report

Natural Resources Conservation Service
Bozeman, MT